

Programme Outcomes of B.A.

The B.A. programme, Carmel College for Women, Nuvem, Goa endeavours to achieve the following outcomes:

PO1: Attribute: KNOWLEDGE

Empower students with knowledge in their areas of undergraduate study.

PO2: Attribute: CRITICAL THINKING

Teach learners the skills required for critical thinking.

PO3: Attribute: RESEARCH

Inculcate among learners a spirit of curiosity leading to an interest in research.

PO4: Attribute: HIGHER EDUCATION

Acquaint students with new trends in their subject areas and develop the capabilities required for higher education.

PO5: Attribute: EXCELLENCE

Inspire learners to appreciate and benchmark good aesthetics and professionalism in the languages and social sciences.

PO6: Attribute: LIFE SKILLS

Inspire the youth to lead a holistic lifestyle.

PO7: Attribute: HUMAN VALUES

Impart value-based learning with the aim to train students to be socially responsible and enlightened citizens.

Programme Specific Outcomes

The Department of Economics aims to achieve the following Programme Specific Outcomes:

PSO1: Attribute: Knowledge and Analysis

Empower students with knowledge and understanding of economic concepts, laws, theories, economic issues and policies and develop in them analytical abilities and skills to give informed opinions and to assess the wide-range implications of economic policies and programs.

PSO2: Attribute: Critical Thinking, Innovation and Research

Develop and foster the abilities to form critical insights, give constructive suggestions, propose innovative ideas related to the pressing economic issues and problems through assignments, projects, presentations, discussions, participation in competitive events, conduct of primary data surveys and analysis, report writing and research articles.

PSO3: Attribute: Career Development

Acquaint the students with new developments in the field, provide awareness on career opportunities, foster entrepreneurship, build and upgrade career skills with add-on and soft-skills training courses.

PSO4: Attribute: Ethics, Environmental and Social Values

To inculcate ethical, social and environmental responsibility in economic pursuits and to involve students in participatory and leadership roles in programs aimed to inspire them to contribute towards positive social and environmental change and to accord utmost priority to ethical values.

Programme	B.A.
Course code	ECO100
Title	Introduction to Economics
Credits	04
Effective from AY	2023-24
Semester	I & II

Syllabus

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objectives:	To introduce the students to the fundamental concepts of economics.	
Content:		No. of Hours
	Unit I: Central concepts of Economics Why Study Economics, Scarcity and efficiency: Definitions of Economics, The Scope of Economics, Microeconomics and Macroeconomics, The Logic of Economics: Positive and Normative Economics, Three problems of Economic Organisation; Market Command and Mixed Economies, Society's Technological Possibilities, Production Possibility Frontier, Opportunity Cost and efficiency.	15
	Unit II: Microeconomics Basic elements of Supply and Demand: Demand schedule, Market Demand, factors affecting demand and Shifts in the Demand curve; Supply Schedule, Supply Curve, Factors affecting supply, Shifts in the supply curve, Equilibrium of Supply and Demand: Effects of Shifts in Demand and Supply on Equilibrium.	15
	Unit III: Macroeconomics. Overview of Macroeconomics, Birth of Macroeconomics, Objectives and Instruments, Tools of Macroeconomic Policy: Fiscal Policy and Monetary Policy, Concepts of GDP and NDP.	15

	Unit IV: Financial System/ Economic Growth and Economic Development. The Modern Financial System: Functions of the Financial System, Evolution of Money, Components of the Money Supply, Demand for Money, Functions of Money. Economic Growth and Economic Development: Meaning and Wheels (Human Economic Development: Human Resources, Natural Resources, Capital, Technological Change and Innovation)	15
Pedagogy:	Lectures/ Case Analysis/ Assignments/ Classroom Interaction/Quiz.	
Main Text:	1. Samuelson, P A and Nordhus, W D (2015): Economics, Tata McGraw – Hill Publishing Company Limited.	
Additional References/ Readings:	1. Case, E K, Fair, C R and Oster M S (2012), Principles of Economics, Pearson Publications. USA 2. Lipsey, R G (1992), An introduction to Positive Economics, ELBS. London.	
	3. Tucker, I B. (2022), Macroeconomics for Today, Cengage Learning. Australia. 4. Tucker, I B. (2022), Microeconomics for Today, Cengage Learning. Australia.	
Course Outcomes:	Student will be able to: 1. Explain basic framework of economic analysis. 2. Compare different kinds of economic systems. 3. Distinguish between different approaches to economic outcomes 4. Assess growth and development outcomes	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	1	1	3	1	2	2
CO2	3	3	2	2	2	1	1	3	2	2	1
CO3	3	3	2	2	2	1	1	3	2	2	1
CO4	3	3	2	2	2	1	1	3	2	2	1

Programme	B.A. Economics
Course code	ECO 111
Title	Political Economy
Credits	4
Effective from AY	2023-24

Syllabus

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objectives:	This course introduces the student to 1. Basic interlinkages between the economy and society 2. How the micro and macro economy differ 3. Functioning of markets 4. Brief overview of economic models	
Content:		No. of Hours
	Module 1: Introduction a. Economics and Liberating Theory- People and Society. The Human Center. The Institutional Boundary. Complementary Holism. B. Expectations from Our Economy -Economic Justice, Efficiency, Self-Management, Solidarity, Variety, Sustainability. C. A Simple Corn Model – A Simple Corn Economy, Conclusions from the Simple Corn Model. Generalizing Conclusions. Economic Justice in the Simple Corn Model.	15
	Module 2: Micro and Macro Economics Concepts – I a. How do markets work – How Do Markets Work. The Dream of a Beneficent Invisible Hand. The Nightmare of a Malevolent Invisible Foot. Markets Undermine the Ties That Bind us. B. Micro Economic Models- The Public Good Game. The Price of Power Game. Income Distribution, Prices and Technical Change. C. Macro Economics: The Macro “Law” Of Supply And Demand. Aggregate Demand. The Pie Principle. The Simple Keynesian Closed Economy Macro Model, Fiscal Policy. The Fallacy of Say’s Law. Income Expenditure Multipliers. Other Causes of Unemployment and Inflation. Myths About Inflation. Myths About Deficits and the National Debt. The Balanced Budget Ploy. Wage-Led Growth.	15
	Module 3: Micro and Macro Economics Concepts – II Money, Banks, and Finance- Money: A Problematic Convenience. Banks: Bigamy Not a Proper Marriage. Monetary Policy: Another Way to Skin the Cat. The Relationship Between the Financial and “Real” Economies b. International Economics: Mutual Benefit or Imperialism -Why Trade Can Increase Global Efficiency. Why Trade Can Decrease Global Efficiency. Why Trade Usually Aggravates Global Inequality, Why International	15

	Investment Can Increase Global Efficiency. Why International Investment Can Decrease Global Efficiency. Why International Investment Usually Aggravates Global Inequality. The Balance of Payments Accounts. Open Economy Macro Economics and IMF Conditionality Agreements.	
	Module 4: Overview of Economic Models a. Macro Economic Models- Bank Runs. International Financial Crises, International Investment in a Simple Corn Model. Banks in a Simple Corn Model. International Finance in an International Corn Model, Fiscal and Monetary Policy in a Closed Economy Macro Model. IMF Conditionality Agreements in an Open Economy Macro Model. Wage-Led Growth in a Long Run, Political Economy Macro Model. B. The Economics of Competition and Greed- Free Enterprise Equals Economic Freedom — Not. Free Enterprise is Efficient – Not. Free Enterprise Reduces Economic Discrimination — Not. Free Enterprise is Fair — Not. Markets Equal Economic Freedom — Not. Markets Are Fair — Not. Markets Are Efficient — Not. What Went Wrong c. The Economics of Equitable Cooperation- Beyond Capitalism.	15
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/	
Main Text:	1. Robin Hahnel, ABC's of Political Economy, Pluto Press.	
References/ Readings:	1. Dan Usher, Political Economy, Blackwell Publishing. 2. James Mill, the Elements of Political Economy, Cosimo Classics. 3. Niall Kishtainy, The Economics Book: Big Ideas Simply Explained, DK Publishing.	
Course Outcomes:	Student will be able to: 1. Explain basic interlinkages between the economy and society. 2. Understand the difference between the micro and macro economy. 3. Differentiate the functioning of public institutions and markets. 4. Assess how economic models may work.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	1	2	1	2	3	3	2	1	3
CO2	3	3	1	2	1	1	1	3	2	1	1
CO3	3	3	2	2	1	2	3	3	3	1	3
CO4	3	3	2	3	2	1	1	3	3	1	1

Programme	B.A. Economics
Course code	ECO 113
Title	Understanding Indian Economic Policy
Credits	04
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objectives:	Equip students to comprehend and critically appraise Indian Economic Policies	
Content:		No. of Hours
	I: State of the Economy Macroeconomic and Growth Challenges in the Indian Economy, India's Economic Resilience and Growth Drivers, India's Inclusive Growth, Product and Capital Market Reforms, Reforms for New India- Sabka Saath Sabka Vikaas, Returns to the Economic and Structural Reforms after 2014	15
	II: Fiscal and Monetary Management Developments in Union Government Finances, Overview of State Government Finances, Debt Profile of the Government. Monetary Developments, Liquidity Conditions, Monetary Policy Transmission, Developments in the G-sec Market, Banking Sector, Credit Growth Aided by a Sound Banking System and Deleveraged Corporate Sector, Recovery of Non-Banking finance companies	15
	III: Prices and Inflation Domestic Retail Inflation, Domestic Wholesale Price Inflation, Fuel Price Inflation: Declining Global Crude Oil Prices, Convergence of WPI and CPI Inflation, Falling Inflationary Expectation, Monetary Policy Measures for Price Stability, Housing Prices: Recovering Housing Market after the Pandemic, Keeping Check on Pharmaceutical Prices	15
	IV: Social Infrastructure and Employment Social Sector Expenditure Keeping Pace with Growing Importance of the Sector, Improving Human Development Parameters, Transformation of Aspirational Districts Programme, Progressing Labour Reform Measures, Aadhaar: The Many Achievements of the Unique Identity, Improving Employment Trends, Ensuring Quality Education for all, Equipping the Workforce with Employable Skills and Knowledge in Mission Mode, Quality and Affordable Health for all, Development of India's Aspiring Rural Economy, Direct Benefit Transfer: a Game Changer, Enhancing Rural Governance for Inclusive Growth	15
Pedagogy:	Lectures, case analysis, assignments and discussion	

Main Text:	1. Economic Survey 2022-23, Ministry of Finance, Government of India, New Delhi
References/ Readings:	1. Datt and Sundaram, Indian Economy, S Chand and Co, New Delhi (recent edition) 2. Mishra and Puri, Indian Economy, Himalaya Publishing Co, Mumbai. (recent edition) 3. Handbook of the Indian Economy, Reserve Bank of India
Course Outcomes:	Student will be able to: 1. Appraise fiscal and monetary policy. 2. Understand the dynamics of social infrastructure and employment. 3. Understand the recent policy initiatives for various sectors of Indian economy. 4. Evaluate the effectiveness of social infrastructure.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	3	2	1	1	3	3	2	1
CO2	3	3	2	2	2	3	3	3	2	2	3
CO3	3	3	2	3	2	2	3	3	3	2	3
CO4	3	3	3	3	2	3	3	3	3	2	3

Name of the Programme	B.A. Economics
Course Code	ECO 131
Title of the Course	Sustainable Development
Number of Credits	03
Effective from AY	2024-25
Pre-requisites for the Course	Same as programme pre-requisites
Course Objectives	To understand global challenges, mechanism to promote equity and social justice, enhance education and awareness, and achieve long-term well being for present and future generations sustainably.

Syllabus

Module	Content	No. of Hours
1 Introduction to Sustainable Development	Definition and concept of sustainable development, objectives of Sustainable development, three pillars of sustainable development, sustainable development: process or end results? dimensions of sustainable development-social, economic and environmental, The Millennium Development Goals, Tools for Sustainable growth.	15
2 Sustainable Development and Climate Change	Causes and impact of climate change, Link between Sustainable Development and Climate Change, Implementation of Sustainable Development and Climate Change Policies, Sustainability Assessment Methods - Indicators and Indices, Conceptual Framework and System Dynamics, Multi-Criteria Analysis, Vulnerability Analysis, Climate change and migration, impact of climate change on cities, strategies adopted for climate change.	15
3 Sustainable development and India	Emergence of Green Technologies towards Sustainable Growth, Transforming millennium development goals to sustainable development goals with reference to India, Environment and Sustainable development with reference to India- state of India's environment, Strategies for sustainable development, Sustainable agriculture and climate change, Industrial development and environmental pollution., Sustainable management of water and sanitation, Environment management and sustainable development.	15
Total		45
Pedagogy	Lectures/ case analysis/assignments/class room interaction/lab practical	

References and Readings

Core Reading	1. Jonathan M. Harris and Brian Roach (2018) Environmental and Natural Resource Economics A Contemporary Approach, Fourth Edition, Taylor and Francis, New York 2. Partha Dasgupta (2021), The Economics of Biodiversity: The Dasgupta Review. Abridged Version. (London: HM Treasury) https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/957292/Dasgupta_Review_-_Abridged_Version.pdf 3. Lynne Lewis, Thomas H. Tietenberg (2020) Environmental Economics and Policy, Routledge, London
Additional References	1. Charles D. Kolstad (2012) Intermediate Environmental Economics, Oxford University Press, New Delhi 2. Stephen Smith (2011) Environmental Economics: A Very Short Introduction, Oxford University Press, Oxford

Course Outcomes

Student will be able to	1. understand global sustainability challenges, 2. Appreciate mechanisms to promote equity and social justice, 3. Explain role of education and awareness in achieving long-term well being 4. Distinguish between needs of present and future generations
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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	3	3	1	2	3
CO2	3	2	2	2	2	2	3	3	2	2	3
CO3	3	2	2	2	2	2	3	2	1	2	3
CO4	3	3	2	2	2	1	3	3	2	2	3

Programme	B.A. Economics
Course code	ECO 132
Title	Globalisation
Credits	03
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Nil	
Course Objectives:	The course familiarizes students with 1. Dynamics globalisation 2. issues pertaining to global economic transitions.	
Content:		No. of Hours
	Module I: Evolution of Globalisation Meaning and definition of globalisation; globalisation of world economy; evolution of globalisation; comparison between old and new globalisation (1870-1913 and 1950 onwards); types of globalisation. Essential conditions of globalisation; stages of globalisation.	15
	Module II: Salient Aspects of Globalisation Drivers of globalisation; features of globalisation; advantages and disadvantages of globalisation; globalisation challenges; obstacles to globalisation; policy measures to safeguard developing countries; global market entry strategies; role of global institutions.	15
	Module III: Components of Economic Globalisation and Measurement Globalisation process; role of transnational corporations; components of economic globalisation -- globalisation of markets, globalisation of production, globalisation of investment and globalisation of technology (meaning, features and reasons); KOF Index of measurement.	15
Pedagogy:	• Chalk and talk aided by ICT Enabled lectures • Assignments and presentations • Group activity • MOOC (or similar) Component	
References/ Readings:	1. P. Subba Rao (2017) International Business, Himalaya Publishing House, Mumbai, Fourth Revised Edition. 2. Francis Cherunilam (2010) International Business: Text and Cases, Fifth Edition PHI Learning Private Limited, New Delhi. 3. Saleem Shaikh, (2020) Pearson India Education services private limited, Noida, Fourth Edition. 4. Ritzer, George. 2010. Globalization: A Basic Text. Wiley-Blackwell. 5. Krugman, Paul R., Maurice Obstfeld and Marc J. Melitz. 2012. International Economics: Theory and Policy. Pearson. 6. Francis Cherunilam, "Global Economy and Business Environment, Tata McGraw Hill Education. Private Ltd., New Delhi, Fifth Edition.	

	7. John Naisbitt, The Global Paradox, Nicholas Brealey Publishing, London, 1994, p. 186. Kenchi Ohmae, The Borderless World, Fontana, London, 1991. 8. John D. Sullivan, “Preparing in the Global Economy”, Economic Reform Today, November 1, 2000.
Course Outcomes:	Student will be able to: 1. Understand basic concepts, evolution and dimensions of globalisation. 2. Assess the impact of globalisation and the wide range of reactions they have caused around the world. 3. Evaluate the pros and cons of globalisation and suggest measures. 4. Summarize the globalisation of markets, production, Investment and Technology.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	3	1	2	2
CO2	3	3	2	2	2	2	2	3	2	2	2
CO3	3	3	2	2	2	2	2	3	3	2	2
CO4	3	2	2	2	2	2	2	3	1	1	

Programme	B.A. Economics
Course code	ECO-200
Title	Microeconomics – I
Credits	04 (4L)
Effective from AY	2024-25
Semester	III

Syllabus

Pre-requisite for the course:	Same as programme pre-requisites	
Course Objectives:	To enable students to understand how market Economies function, optimum real life decisions by individuals and firms under different markets.	
Content:		No. of Hours
	Module 1: Consumer Theory Budget constraint, concept of utility, diminishing marginal utility, utility maximizing rule, Diamond-water-paradox, income and substitution effects; Consumer choice: indifference curves, derivation of demand curve from indifference curve and budget constraint.	15
	Module 2: Production and Costs Production: Behaviour of profit maximizing firms, profit and economic costs, short run vs long run decisions, production process, production functions, Law of variable proportions, choice of technology, isoquant and isocost lines, returns to scale, cost minimizing equilibrium condition. Costs: Cost concepts — economic and accounting costs (explicit/implicit), sunk, opportunity, fixed, variable, costs in the short run, costs in the long run, economies and diseconomies of scale and diseconomies of scope.	15
	Module 3: Perfect Competition Assumptions/features, theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries. Market adjustments to changes in demand, efficiency of perfect competition; sources of market failure: imperfect markets, public goods, externalities, imperfect information; evaluating the market mechanism.	15
	Module 4: Monopoly Concepts of market imperfection and monopoly power; revenue and demand in monopoly markets, price and output decisions in pure monopoly in short run and long run, comparison of perfect competition and monopoly, sources of monopoly power, social cost of monopoly, price discrimination: degrees of price discrimination, remedies for monopoly: Antitrust laws.	15
Pedagogy:	Lectures/Case analysis/assignments/class-room interactions/group discussions/quiz/short assignments/class room presentation.	

Main Text:	1. Case, Karl E., Ray C. Fair and S. Oster (2014). Principles of Economics, 12 th Edition. Pearson Education, New Delhi.
References/ Readings:	1. Pindyck, Robert S., Rubinfeld, Daniel L. and Mehta, Prem L. (2009). Microeconomics. 7th Edition, Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi. 2. Samuelson, Paul A. & Nordhaus, William D. (2010). Economics – 19th Ed. Tata McGraw Hill, New Delhi. 3. Salvatore, Dominick (2004), Microeconomic Theory, (Schaum's outlines) 3rd Edition, Tata McGraw Hill, New Delhi. 4. Hyman N. David (1996) Microeconomics, 4th Edition, Irwin, USA. 5. Pindyck, Robert S., Rubinfeld, Daniel L. (2009). Study Guide for Microeconomics. 8th Edition, Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi. 6. Tucker, Irvin, B. (1999), Economics for Today, 2nd Edition, South-western college publishing, Thomson Learning, Australia. 7. Salvatore, Dominick (2004), Principles of Microeconomics, 5th Edition, Oxford University Press, UK. 8. Gravelle, H. And R. Rees, (2004), Microeconomics, 2nd Edition, Pearson Education Pvt. Ltd, New Delhi. 9. Stonier, Alfred, W. & Douglas G. Hague, (2006), A Text Book of Economic Theory, 5th Edition, The English Language Book Society and Longman Group Ltd. London. 10. Tucker, Irvin, B. (2022), Microeconomics for Today, Cengage Learning. Australia. 11. Mankiw, Gregory, N. (2006), Principles of Microeconomics, 4th Edition, Cengage Learning, Australia. 12. Lipsey, Richard, G. and K. Alec Chrystal, (2002). Principles of Economics, 9th Edition, Oxford University Press, New Delhi, London.
Course Outcomes:	Student will be able to: 1. Understand consumer behaviour. 2. Explain the role of production and costs in output determination. 3. Assess operation of economy under perfect competition. 4. Evaluate operation of economy under monopoly.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	3	1	2	2
CO2	3	2	2	2	2	2	2	3	1	2	2
CO3	3	3	2	2	2	2	2	3	2	2	2
CO4	3	3	2	2	2	2	2	3	2	2	2

Programme	B.A. Economics
Course code	ECO-201
Title	Macroeconomics – I
Credits	04 (15L)
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Nil	
Course Objectives:	This course is designed to provide an introduction to the students about the basic building blocks of Macro Economics which will serve as a foundation to understand major Macroeconomic issues.	
Content:		No. of Hours
	Module 1: National Income Accounting, Unemployment, Inflation and Long run Growth Gross Domestic Product: meaning Calculating GDP: the Expenditure Approach, the Income Approach and the Value-added Approach; Nominal versus Real GDP: calculating Real GDP, calculating the GDP Deflator, the problems of Fixed Weights; Limitations of the GDP Concept: GDP and Social Welfare, the Underground Economy, Gross National Income per Capita Unemployment: meaning, measuring Unemployment, the costs of Unemployment; Inflation: meaning, the Consumer Price Index, the PPI, the costs of Inflation; Long-Run Growth: output and productivity growth	15
	Module 2: Aggregate Expenditure and Equilibrium Output The Keynesian Theory of Consumption: The Psychological Law of Consumption, the Consumption Schedule, the Consumption Function with diagram, determinants of Consumption, attributes of the Consumption Function; The Savings Function: the Savings Schedule, the Savings Function with diagram, attributes of the Savings Function; The Investment Function: Planned Investment, Actual Investment, factors determining Investments; The determination of Equilibrium Output: the Saving/Investment Approach to Equilibrium, Adjustment to Equilibrium; The Multiplier: meaning, formulae and problems; The Paradox of Thrift	15
	Module 3: The Government and Fiscal Policy Government in the Economy: Fiscal Policy- meaning, objectives, Government Purchases, Net Taxes, and Disposable income, the determination of Equilibrium Output;	15

	Fiscal Policy at Work: Multiplier Effects: the Government Spending Multiplier, the Tax Multiplier, the Balanced-Budget Multiplier; The latest Central Budget; The Economy's Influence on the Government Budget: Automatic Stabilizers and Destabilizers, Full-Employment Budget.	
	Module 4: Money Supply and the Reserve Bank of India An Overview of Money: Definition of money, functions, types, RBI Indices of Money Supply, the Banking System in India; Monetary Policy and Credit Creation: How do Banks create Money, a Historical Perspective- Goldsmiths, the modern Banking System, the creation of Money, the Money Multiplier; Role of Monetary Policy in inflation and employment management The Reserve Bank of India: Functions of the RBI, Monetary Policy- meaning and instruments, Excess Reserves and the Supply Curve for Money.	15
Pedagogy:	Lectures/Case analysis/ assignments/ group discussions/ quiz/presentations	
Main Text:	1. Case, K. E., Fair, R. C., & Oster, S. M. (2020). Principles of Economics. 13th edition, Prentice Hall. 2. Handbook of Indian Economy, Reserve Bank of India, Latest edition	
References/ Readings:	1. Blanchard, Oliver and Johnson R. David (2021). Macroeconomics, 8th edition. Pearson Education, New Delhi. 2. Froyen, R. T. (2013). Froyen: Macroeconomics. 10th edition, Pearson Higher Ed. 3. Irvin Tucker (2022). Macroeconomics for Today, 11th edition, Cengage Publisher. 4. Mankiw, N. Gregory (2022). Macroeconomics. 11th edition, Macmillan Learning. 5. Samuelson, P. A., & Nordhaus, W. D. (2021). Macroeconomics. 20th edition, Pearson. 6. https://www.indiabudget.gov.in/	
Course Outcomes:	Student will be able to: 1. Understand the major macroeconomic concerns as well as be acquainted with the concept of National Income and develop problem solving skills. 2. Measure and evaluate inflation, unemployment and understand key macroeconomic concepts like consumption, saving, investment, and the Paradox of Thrift. 3. Analyze the role and importance of the Government's Fiscal Policy in a modern economy. 4. Appreciate the role of the RBI and identify the key measures of credit control.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	3	2	1	1	3	2	1	1
CO2	3	3	2	3	2	1	1	3	3	1	1
CO3	3	3	2	3	2	2	3	3	3	2	3
CO4	3	3	2	3	2	2	3	0	0	0	0

Programme	B.A. Economics
Course code	ECO 211
Title	Primary Survey and Analysis
Credits	4 (3T+1P)
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Same as programme requirements	
Course Objectives:	To introduce to the students 1. A set of principles of primary survey design that is the basis of standard practices in the research field. 2. Basic statistical concepts and 3. Have exposure to elements of social science perspectives on human behavior.	
Content:		No. of Hours
	Unit I: Introduction to Primary Survey Introduction to survey methodology, Meaning of Primary Survey, Steps and process of a survey, Key concepts and principles of survey quality, Types of Primary Survey (Population Survey and Sample Survey), Importance of Primary Survey, Limitation of Survey.	15L
	Unit II: Sampling Methods Sampling Technique of Data Collection, Method of Sampling – Probability Sampling and Non-Probability Sampling, Sampling Non-Sampling Error, Characteristics of a good sample, Importance of size of Sample, Mode of data collection	10L+10P
	Unit III: Questionnaire Design Questionnaire Design, Techniques for Designing Questionnaires (Logical Sequence, Good Wording, Write a clear layout, A reasonable length), Types of Questions (Open ended, Close ended), Qualitative and Quantitative questions. Sample survey / questionnaire (Personal Demographics, Organization/Management related, Consumer Taste and Preferences related towards the goods and services). Practical Exercise: Pilot Survey: Data Processing and Analysis Introduction, Data Processing: Editing, Coding, Classification, Tabulation, Data Analysis. Practical Exercise: Graphical representation of statistical data on: Bar Graph, Pie Charts, Histogram, Frequency polygon and Frequency curve (Ogive curve).	10L+10P
	Unit IV: Quantitative Tools for Data Analysis Definition of Central Tendency, Characteristics of Central Tendency, Types of Measures of Central Tendency (Mean, Median, Mode), Relationship between Mean, Median and Mode; Measures Dispersion (Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation)	10L+10P

	Practical Exercise: Data Analysis using Quantitative Software: Introduction, Entering Data, Reading Data into software, Basic Data Function, Data Management, Data Analysis (Descriptive Statistics). Activities: 1. Pilot Survey 2. Data analysis – Graphical Representation 3. Presentation on Measure of central tendency and dispersion 4. Data Analysis using Quantitative Software	
Pedagogy:	Lectures/ case analysis/assignments/classroom interaction/lab practical	
References/ Readings:	1. Dr. O.R. Krishnaswami & Dr. M. Ranganatham. (2018). Methodology of Research in Social Sciences. Himalaya Publishing House 2. Kultar Singh. (2007). Quantitative Social Research Methods. Sage Publications India Pvt. Ltd. 3. C.R. Kothari & Gaurav Garg. (2019). Research Methodology Methods and Techniques-4th Ed. New Age International Publishers. 4. D.S. Sancheti & V.K. Kapoor: Statistics: Theory, Method & Application. Sultan Chand & Sons, New delhi. 5. Goon, Gupta, Dasgupta: An outline of statistical Theory, Vol 1 and 2. Word Press, Calcutta. Statistics, 4th edition, by Freedman, Pisani, and Purves (W.W. Norton and Company, 2011).	
Course Outcomes:	Student will be able to: 1. Undertake primary data collection. 2. Design a questionnaire. 3. Learn to pre-test, and design a sample for data collection. 4. Able to store and archive data.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	2	2	2	2	3	2	2
CO2	3	3	3	3	2	2	2	2	3	2	2
CO3	3	3	3	3	2	2	2	2	3	2	2
CO4	2	1	2	2	2	2	2	1	2	2	2

Programme	B.A. Economics
Course code	ECO 242
Title	Entrepreneurship Development
Credits	03 (1L-0T-2P)
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objectives:	To expose students to entrepreneurship and to develop skills to be an effective businessperson and to identify areas of utmost importance in the starting and managing of the business.	
Content:		No. of Hours
	Unit 1: Understanding Basic Accounting and Business Finance Objectives of accounting, Accounting process, Record Keeping, Cash Flow management and Inventory management. Financing business-Finance for entrepreneurs- Sources of Finance- internal and external, Government Schemes for small entrepreneurs.	5L+20P
	Unit 2: Tourism Entrepreneurship and Rural Entrepreneurship Tourism Entrepreneurship- Meaning, Perspective, Eco-tourism/Nature tourism/rural tourism, Policy measures for tourism entrepreneurship in India. Rural Entrepreneurship- Meaning, Need, Problems, how to develop Rural Entrepreneurship.	5L+20P
	Unit 3: Patents, Copyrights and trademarks Patents – Meaning, Types, Process. Copyrights- Meaning, Objectives. Trademarks- Meaning, Functions, Categories, Benefits and Registration.	5L+20P
Pedagogy:	1. Chalk and talk aided by ICT enabled lectures, Practical 2. Assignments and presentations 3. Group activity (Videos, In-class Activities, Outbound Activities)	
Main Text:	1. S. S. Khanka, Entrepreneurial Development, S. Chand & company pvt. Ltd.	
References/ Readings:	1. Cynthia L. Greene, Entrepreneurship: Ideas in Action, Thomson- South-Western. 2. Mary Coulter, Entrepreneurship in Action, 2nd edition, prentice–Hall of India, Indian reprint. 3. Thomas W. Zimmerer, and Norman M. Scarborough, Essentials of Entrepreneurship and small business management, Prentice–Hall of India, 2006. 4. Vasant Desai, Dynamics of Entrepreneurship Development, Himalaya Publishing House.	
Course Outcomes:	Student will be able to: 1. Understand Basic Accounting needed to start a business. 2. Know the options for Sources of small business Finance. 3. Identify the avenues of Entrepreneurship and learn the required skills by	

	organising events. 4. Learn the techniques of stress management.
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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	1	2	2	1	3	2
CO2	3	2	2	2	2	1	2	3	1	3	2
CO3	3	3	2	2	2	3	2	2	2	3	2
CO4	2	1	2	2	2	3	2	2	2	2	2

Programme	B.A. Economics
Course code	ECO-202
Title	Microeconomics – II
Credits	04 (4L)
Effective from AY	2024-25
Semester	IV

Syllabus

Pre-requisite for the course:	Successfully completed Microeconomics 1 or equivalent	
Course Objectives:	The course makes the students to understand how different market conditions operate and optimum decisions are taken by firms.	
Content:		No. of Hours
	Module 1: Imperfect Competition Monopolistic competition: Assumption/features; short run & long run price and output determination, economic efficiency and resource allocation. Oligopoly-meaning, features, oligopoly models-collusion, price-leadership, kinked demand curve, cournot; game theory, role of the government.	15
	Module 2: Information, Market failures and Role of Government Externalities, marginal social/cost pricing, internalizing externalities, public goods, common resources, asymmetric information; adverse selection, moral hazards, market signaling, incentives,	15
	Module 3: Input Demand: The Labour, Land, Capital Markets and Investment decision Input markets: demand for inputs; labour markets, land markets, profit maximization condition in input markets, input demand curves, distribution of income. Capital markets; capital, investment and depreciation: investment and depreciation, capital markets, capital accumulation and allocation.	15
	Module 4: Income distribution and International Trade Sources of household income, distribution of market income, inequality in market income, arguments for and against redistribution, redistribution through taxes and transfer, Poverty, minimum wage and income inequality in other countries. Absolute advantage, comparative advantage, terms of trade, sources of comparative advantage, trade barriers, free trade/protectionism.	15
Pedagogy:	Lectures/Case analysis/assignments/class-room interactions/group discussions/quiz/short assignments/class room presentation.	
Main Text:	1. Case, Karl E., Ray C. Fair and S. Oster (2014). Principles of Economics, 9th Edition. Pearson Education, New Delhi.	

References/ Readings:	1. Pindyck, Robert S., Rubinfeld, Daniel L. and Mehta, Prem L. (2009). Microeconomics. Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi 2. Samuelson, Paul A. & Nordhaus, William D. (2010). Economics – 19th Ed. Tata McGraw Hill, New Delhi. 3. Salvatore, Dominick (2004), Microeconomic Theory, (Schaum's outlines) 3rd Edition, Tata McGraw Hill, New Delhi. 4. Hyman N. David (1996) Microeconomics, 4th Edition, Irwin, USA. 5. Pindyck, Robert S., Rubinfeld, Daniel L. (2009). Study Guide for Microeconomics. 8th Edition, Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi. 6. Tucker, Irvin, B. (1999), Economics for Today, 2nd Edition, South-western college publishing, Thomson Learning, Australia. 7. Salvatore, Dominick (2004), Principles of Microeconomics, 5th Edition, Oxford University Press, UK. 8. Gravelle, H. And R. Rees, (2004), Microeconomics, 2nd Edition, Pearson Education Pvt. Ltd, New Delhi. 9. Stonier, Alfred, W. & Douglas G. Hague, (2006), A Text Book of Economic Theory, 5th Edition, The English Language Book Society and Longman Group Ltd. London. 10. Tucker, Irvin, B. (2022), Microeconomics for Today, Cengage Learning.
Course Outcomes:	Student will be able to: 1. Explain the outcomes in the presence of market imperfections. 2. Evaluate market failures and role of government. 3. Understand role of inputs. 4. Assess Impact of inequality and international trade.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	1	3	2	2	1
CO2	3	3	2	2	2	2	3	3	2	2	3
CO3	3	2	2	2	2	2	1	3	1	2	1
CO4	3	3	2	2	2	2	3	3	2	2	3

Programme	B.A. Economics
Course code	ECO-203
Title	Macroeconomics – II
Credits	04 (4L)
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Macroeconomics-1 or equivalent	
Course Objectives:	To familiarize students with macroeconomic terminologies so as to enable them to develop a comprehensive understanding of economics at a macroeconomic level and also to create awareness about recent developments in macroeconomic literature.	
Content:		No. of Hours
	Module 1: Money Demand and the Equilibrium Interest Rate Interest Rates and Bond Prices: meaning of interest and bond, relationship between interest rates and bond prices The Demand for Money: the Transaction Motive, the Precautionary Motive, the Speculation Motive, the total Demand for Money, The Liquidity Trap, the effect of Nominal Income on the Demand for Money; The Equilibrium Interest Rate: Supply and Demand in the Money Market, impact of changes in the Money Supply on the Interest Rate, shifts in the Money Demand Curve and the Interest Rate, Zero Interest Rate Bound;	15
	Module 2: Aggregate Demand and Aggregate Supply Planned Investment and the Interest Rate: meaning of Investment, Investment and Interest Rate, other determinants of Planned Investment, Planned Aggregate Expenditure and the Interest Rate; Equilibrium in both the Goods and Money Markets Policy Effects in the Goods and Money Markets: Expansionary Policy effects, Contractionary Policy effects, the Macroeconomic Policy Mix; Aggregate Demand (AD): the concept of Aggregate Demand, the Aggregate Demand Curve, slope of the Aggregate Demand Curve, shifts of the Aggregate Demand Curve from Policy Variables; Aggregate Supply (AS): the concept of Aggregate Supply; Aggregate Supply Curve in the short run; shifts in the short run Aggregate Supply Curve; The Equilibrium Price Level: Macroeconomic equilibrium; The Long-Run Aggregate Supply Curve: Potential GDP; Monetary and Fiscal Policy Effects: Long-Run Aggregate Supply and Policy Effects	15
	Module 3: The IS-LM Model of Integration of Commodity and Money Market The IS Curve: features, the IS Curve, slope of the IS Curve, shift in the IS Curve, Equilibrium in the Goods Market; The LM Curve: features, the LM Curve, slope of the LM Curve, shift in the LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market	15

	Module 4: The Labor Market in the Macroeconomy The Labor Market: Basic Concepts; The Classical View of the Labor Market: The Classical Labor Market and the Aggregate Supply Curve, the Unemployment Rate and the Classical View; Unemployment: Sticky Wages, Efficiency Wage Theory, Imperfect Information, Minimum Wage Laws; The Short-Run Relationship Between the Unemployment Rate and Inflation: The Phillips Curve- A Historical Perspective, Aggregate Supply and Aggregate Demand Analysis and the Phillips Curve, Expectations and the Phillips Curve, Inflation and Aggregate Demand; The Long-Run Aggregate Supply Curve, Potential Output, and the Natural Rate of Unemployment: The Nonaccelerating Inflation Rate of Unemployment (NAIRU)	15
Pedagogy:	Lectures/Case analysis/ assignments/ group discussions/ quiz/presentations	
Main Text:	1. Case, K. E., Fair, R. C., & Oster, S. M. (2020). Principles of Economics. 13 th edition, Prentice Hall.	
References/ Readings:	1. Blanchard, Oliver and Johnson R. David (2021). Macroeconomics, 8 th edition. Pearson Education, New Delhi. 2. Froyen, R. T. (2013). Froyen: Macroeconomics. 10 th edition, Pearson Higher Ed. 3. Irvin Tucker (2022). Macroeconomics for Today, 11 th edition, Cengage Publisher. 4. Mankiw, N. Gregory (2022). Macroeconomics. 11 th edition, Macmillan Learning. 5. Samuelson, P. A., & Nordhaus, W. D. (2021). Macroeconomics. 20 th edition, Pearson.	
Course Outcomes:	Student will be able to: 1. Explain the key macroeconomic determinants of the demand for money. 2. Evaluate the concepts of aggregate demand and aggregate supply and the manner in which macroeconomic equilibrium is attained. 3. Appraise the IS-LM Model of Commodity Market and Money Markets. 4. Analyze the relationship between unemployment, inflation, and the labor market, and understand how commodity, labor, and money markets interact to shape output, prices, and employment in the real [remaining text cut off in supplied image].	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	3	2	1	1	3	2	1	1
CO2	3	3	2	3	2	1	1	3	3	1	1
CO3	3	3	2	3	2	2	3	3	3	2	3
CO4	3	3	2	3	2	2	3	0	0	0	0

Programme	B.A. Economics
Course code	ECO-204
Title	Indian Economy
Credits	4
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objectives:	1. To provide a basic understanding to the students on the development of Indian Economy in the pre-Independence period and post-Independence period. 2. To analyse the demographic trends and Economic development in India. 3. To acquaint the students with the impact of planning and economic reforms in India. 4. To make the students understand the significance of productive sectors in the economy and their impact on key economic indicators.	
Content:		No. of Hours
	Module I: Evolution of Indian Economy and Planning Process in India Features of Indian economy in the pre-independence and post-independence Period. Meaning of Economic Planning: Objectives of Indian planning; Mixed Economy; Planning Commission; Development strategies – Nehru-Mahalanobis Model (Features) and Rao-Manmohan Singh Model (Features) Transition from Planning Commission to NITI Aayog.	15
	Module II: Demographic features and Economic Development Demographic trends; Demographic Issues; National Population Policy 2000 (features and measures). Economic Development (meaning); Distinction between economic growth and economic development; Physical Quality Life Index; Human Development Index; Gender Development Index, Happiness Index.	15
	Module III: Economic Challenges faced by Indian Economy Poverty, Unemployment, and Inequality of income (meaning, causes, effects, measures and any two policies; Interrelationship between poverty, unemployment and inequalities of income.	15
	Module IV: Productive Sectors Agriculture sector - Role of agriculture in Indian economy; Green Revolution; Land reforms; Agricultural marketing. Industrial Sector- Role of Industries in Indian economy; Industrial Policy of 1991; Role of Public sector; Multinational Corporation; MSME (definition). Service sector- Significance of service sector in Indian economy; Health	15

	status, Education; growth of IT sector; Composition of Indian Banking System.	
Pedagogy:	• Chalk and talk aided by ICT enabled lectures. • Assignment and Presentations • Group activity • MOOC (or similar component)	
Main Text:	1. V K Puri, S.K Mishra and Bharat Garg (2022): Indian Economy: its Development Experience, Himalaya Publishing House, Mumbai.	
References/ Readings:	1. Gaurav Datt and Ashwani Mahajan (2022), Dutt and Sundaram Indian Economy, S Chand and Company, New Delhi. 2. Uma Kapila (2014) Indian Economy since Independence, Academic Foundation, New Delhi. 3. I.C Dhingra, (2004): Indian Economic Problems, S Chand & Company, New Delhi. 4. M.B Shukla (2012): Indian Economy, Taxmann, New Delhi. 5. P.K Dhar (2014): Indian Economy and Growing Dimensions, Kalyani Publishers, New Delhi. 6. Ramesh Singh (2020-21): Indian Economy, McGraw Hill Education, Chennai.	
Course Outcomes:	Student will be able to: 1. Explain the transformation of Indian economy since independence. 2. Analyse the role of planning and economic reforms in transforming India. 3. Critically appraise development strategies in India. 4. Assess the emerging challenges of the Indian economy.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	1	3	1	2	1
CO2	3	3	2	2	2	2	2	3	2	2	2
CO3	3	3	2	2	2	2	3	3	2	2	3
CO4	3	3	2	2	2	2	3	3	2	2	3

Programme	B.A. Economics
Course code	ECO-205
Title	Development Economics - I
Credits	2
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Microeconomics-1 and Macroeconomics-1 or equivalent	
Course Objectives:	1. To understand the various facets of economic development. 2. To analyse the theories of economic development.	
Content:		No. of Hours
	Module I: Introduction Why study economic development? Poverty in the less-developed world, The development enigma, Recent trends in economic growth, Why development, and why now? Economic growth and development require structural change, Barriers to development.	15
	Module II: Theories of Economic Development The theory of the big push, A theory of balanced growth, Unbalanced growth, Growth with unlimited supplies of labour, Utilizing the economic surplus, Stages of growth theory.	15
Pedagogy:	Lectures, Group Discussions, Presentations, Short Assignments.	
Main Text:	1. Cypher, J. M. & Dietz, J. L. (2020). The Process of Economic Development, Routledge, London.	
References/ Readings:	1. Todaro, Michael. P & Smith S. C. (2020), 13th Ed., Economic Development, Pearson, U.K. 2. Thirwal, A.P. and Lopez, P. P. Economics of Development: Theory and Evidence (2017), Bloomsbury Publishing India Pvt. Ltd., New Delhi. 3. Debraj Ray, Development Economics, (2009) Oxford University Press. 4. Ghatak, S. (2003) Introduction to Development Economics, Routledge, London.	
Course Outcomes:	Student will be able to: 1. Explain the difference between growth and development. 2. Compare, contrast and analyse the theories of economic development. 3. Assess balanced and unbalanced growth. 4. Evaluate different stages of growth.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	1	2	1	1	1	3	2	1	1
CO2	3	3	2	2	1	1	1	3	3	1	2
CO3	3	3	2	2	1	1	2	3	3	2	3
CO4	3	3	2	2	1	1	2	3	3	2	2

Programme	B.A. Economics
Course code	ECO 222
Title	Financial Economics I
Credits	4 (3T+1P)
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Same as programme pre-requisites	
Course Objectives:	To equip students with basics of investment and working of financial ratios.	
Content:		No. of Hours
	Module 1: Investment Environment Introduction to Investment; Nature, Meaning and Importance of Investment; Real Assets versus Financial Assets; Financial Markets and The Economy; Investment process; Recent trends in Investment Environment.	15L
	Module 2: Forms of Financial Investments Money Market; The Bond Market; Equity Securities; Stock and Bond Market Indexes; Derivative Markets; Investment companies: Types of Investment Companies; Mutual Funds: Cost of investing in mutual funds.	10L+10P
	Module 3: Investment – Risk and Return Concept of Investment risk and return; Determinant of the level of Interest Rates; Risk and Risk Aversion; Capital allocation across Risky and Risk-Free Portfolios; Risk-Free Asset; Optimal Risky Portfolios; Diversification and portfolio risk; portfolios of Two Risky Assets.	10L+10P
	Module 4: Security Analysis and Financial Ratios The Global Economy; Accounting versus Economic Earning; Profitability Measures; Meaning of Ratio Analysis, types and meaning of Financial ratio- Liquidity ratio; Market Price ratios, Importance of Financial ratio Analysis-Economic Value Added; Limitations of Financial ratios.	10L+10P
Pedagogy:	Lectures/ case analysis/assignments/class room interaction	
Main Text:	1. Bodie Zvi, Alex Kane, Alan J. Marcus and Pitabas Mohanty (2015), Investments, 10th Edition, Tata McGraw Hill Education Pvt. Ltd. New Delhi	
References/ Readings:	1. Mark Hirchey, John Nofsinger (2008) Investment- Analysis and behavior, Tata mac Graw Hills Publishing Company Limitation, New Delhi. 2. Maheshwari S. N. (2015), Management Accounting and Financial Control, Sultan Chand & Sons, New Delhi. 3. Prasanna Chandra, Financial Management- Theory and Practice, Mc Graw Hills New Delhi. 10th Edition 4. Khatri Kumar Dhanesh (2012), Investment Management and Security Analysis- Text & Case, 2nd Edition, MacMillan India Ltd.	

	5. Bhole, L.M. (2009): Financial Institutions and Markets, Tata McGraw Hill, New Delhi 6. Pandey I. M. (2015) Financial Management, 11th Edition, Vikas Publishing House Pvt. Ltd. New Delhi
Course Outcomes:	Student will be able to: 1. Explain Investment, Investment process and recent trends in Investment. 2. Classify different forms of Investments. 3. Analyze risk and return of Investment. 4. Evaluate financial Ratios.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	2	1	2	3	1	2	2
CO2	3	2	2	2	2	1	2	3	1	2	2
CO3	3	3	2	3	2	2	2	3	2	2	2
CO4	3	3	2	3	2	1	2	3	2	2	2

Name of the Programme	B.A. Economics
Course Code	ECO-300
Title of the Course	Basic Statistics
Number of Credits	04 (3T+1P)
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objectives:	The objective of the course is to: familiarize basic statistical concepts and learn the tools for analyzing data understand the use of spreadsheets	
Content:		No. of Hours
	Unit 1: Introduction to Basic Statistics Statistics: The Art and Science of Learning from Data; Using Data to Answer Statistical Questions, Sample Versus Population, Using Calculators and Computers. Practical: Introduction to spreadsheets, statistical functions in spreadsheets, data analysis in spreadsheets	15L
	Unit 2: Exploring Data with Graphs Exploring Data with Graphs: Different Types of Data, Graphical Summaries of Data, Recognizing and Avoiding Misuses of Graphical. Practical: Generating and interpreting graphs using spreadsheets	10L+10 P
	Unit 3: Exploring Data with Descriptive Statistics Different Types of Data, Measuring the Center of Quantitative Data, Measuring the Variability of Quantitative Data, Using Measures of Position to Describe Variability Practical: Generating and interpreting descriptive Statistics using spreadsheets	10L+10 P
	Unit 4: Exploring Data with Associations: Association: Contingency, Correlation, and Regression, The Association Between Two Categorical Variables, The Association Between Two Quantitative Variables, Predicting the Outcome of a Variable, Cautions in Analyzing Associations. Practical: Estimating measures of associations (correlation and simple regression) using spreadsheets; interpreting measures of association	10L+10 P
Pedagogy:	Lectures/ case analysis/assignments/classroom interaction/lab practical	
Main Text:	1. Alan Agresti, Christine Franklin, and Bernhard Klingenberg (2017) The Art and Science of Learning from Data, Fourth Edition, Pearson Education.	
References/ Readings:	1. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. G.C. Beri (2005): Business Statistics, 2nd Edition, Tata McGraw Hill Publishing Company Ltd, Delhi Ron C. Mittel Hammer (2013): Mathematical Statistics for Economics	

	and Business, 2nd Edition, Springer Levine, D., Stephan, D., & Szabat, K., Statistics for Managers Using Microsoft® Excel®, 7th ed., 2013. Upper Saddle River, NJ: Prentice Hall
Course Outcomes:	Students will be able to use and interpret: 1. vital statistics 2. preliminary statistical graphical tools 3. summaries and explore data in spreadsheets 4. measures of association in spreadsheets

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	1	2	1	3	2	1	2
CO2	3	3	2	2	2	2	1	3	3	2	1
CO3	3	3	3	3	2	2	1	3	3	3	1
CO4	3	3	3	3	2	2	1	3	3	3	1

Name of the Programme	B.A. Economics
Course Code	ECO-301
Title of the Course	Public Finance
Number of Credits	04
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Microeconomics-1 &2 and Macroeconomics-1 &2	
Course Objectives:	To introduce students to the role of public expenditure, management of revenue, and implications of debt in macroeconomic management.	
Content:		No. of Hours
	Module 1 Public Sector Need and Functions of Public Sector, Social goods and market failure, market failure due to non rival consumption, market failure due to non-excludability and combined causes of market failure, Public provision for social goods , Need and instruments of stabilization policy, Public sector in the circular flow, Public sector in the National Income accounts.	15
	Module 2 Public Expenditure Public expenditure growth by type of expenditure, Causes of expenditure growth, Fundamentals of project evaluation- Types of benefits and costs , measurements of benefit and costs. Canons of Public expenditure, Effects of public expenditure on production and distribution.	15
	Module 3 Taxation Ability to pay- Horizontal Equity & Vertical Equity, Nature of tax burden, Concept of Incidence- Statutory incidence, Economic Incidence and Tax shifting, Effects of tax on Private sector saving, Adam Smiths Canons of taxation, Distinction between Direct & indirect tax, Income tax and Goods and services tax from India's perspective.	15
	Module 4 Fiscal Federalism in India Transfer of resources through finance commissions (1951- 200), Transfer of resources through finance commissions (2000-2010), Fifteenth Finance commission (2021-2026), other sources of transfer, Problems of federal finance in Indian and suggestions for improvement, local finance - functions and sources of revenue for Panchayats and Municipalities	15
Pedagogy:	Lectures/Case analysis/assignments/class room interaction	
References/ Readings:	1. Public Finance in Theory and Practice- Richard A Musgrave & Peggy B Musgrave Public Finance by B.P. Tyagi Indian Economy , V.K Puri, S.K Misra, Bharat Garg	

Course Outcomes:	Students will be able to: 1. assess the role of the public sector 2. evaluate techniques of public expenditure 3. evaluate efficacy of tax and non-tax revenue 4. assess role of debt in macroeconomic management
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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	2	2	2	3	2	2	2
CO2	3	3	2	2	2	2	2	3	2	2	2
CO3	3	3	2	2	2	2	3	3	2	2	3
CO4	3	3	2	2	2	2	1	3	2	2	1

Name of the Programme	B.A. Economics
Course Code	ECO 302
Title of the Course	Research Methodology
Number of Credits	04
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Same as programme pre-requisites	
Course Objectives:	Equip students with basic methods of social research ability to design a research study frame a hypothesis basic report writing	
Content:		No. of Hours
	I-Introduction and Research Design Research: meaning, objectives, types and significance, criteria for good research, problems faced by researchers in India, steps involved in social science research. Research Design: meaning, need, features and important concepts: dependent and independent variable, extraneous variable, control, treatments, experiment and research hypothesis.	15
	II-Research Methods Research methods: Case study, social survey and experimental method (meaning, features, importance and limitations)	15
	III -Hypothesis Hypothesis: Meaning, features, importance and sources. Basic concepts concerning testing of hypothesis: null and alternative hypothesis, type I and type II errors, level of significance and two tailed and one tailed tests	15
	IV- Sampling Techniques and Report Writing Sampling methods: Simple random, stratified, multistage, cluster and snow ball sampling. Sampling and non-sampling errors. Report writing: Significance, types and steps involved.	15
Pedagogy:	Lectures, case analysis, assignments and discussion	
References/ Readings:	1. Main Text: Research Methodology-methods and Techniques- C R Kothari and Gaurav Garg, New Age International (P) Limited, Publishers Additional Readings: Research Methods- Ram Ahuja, Rawat Publications. Research Methodology and statistical Techniques-Santosh Gupta, Deep and Deep Publications New Delhi.	
Course Outcomes:	Students will be able to: 1. undertake social science research. 2. evaluate different research methods.	

	3. create samples using different sampling methods 4. write reports based on analysis
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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	2	2	2	2	3	2	2
CO2	3	3	3	3	2	2	2	2	3	2	2
CO3	3	3	3	3	2	2	2	2	3	2	2
CO4	3	3	3	3	3	2	2	3	3	2	2

Name of the Programme	B.A. Economics
Course Code	ECO 303
Title of the Course	Development Economics - II
Number of Credits	02
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Development Economics - I	
Course Objectives:	To understand the significance of technology in economic development. To realize the benefits and costs of Transnational Corporations and economic development.	
Content:		No. of Hours
	Module I: Technology and Economic Development What is technology? A technological strategy of development, Total factor productivity and national technology, Technology- centered development, Industrial innovation: Continuing technological progress, Industrial policies to promote an ITLC, Macro- policies and technological change.	15
	Module II: Transnational Corporations and Economic Development Meaning of TNCs, Import substitution industrialization and the TNCs, The globally integrated production system, Foreign direct investment, Who in the less-developed countries gains from FDI? Capital formation and TNCs, Potential costs of TNCs to a host country, Weak linkages, thin globalization, Export promotion and the fallacy of composition, Long-term costs of TNCs: the potential for environmental degradation, Export processing zones and the problems of small nations, Vertically integrated TNCs and development prospects, Bargaining with the TNCs, FDI in Asia and Latin America.	15
Pedagogy:	Lectures, Group Discussions, Presentations, Short Assignments.	
References/ Readings:	1. Main Text Book: Cypher, J. M. & Dietz, J. L. (2020), The Process of Economic Development, Routledge, London. Todaro, Michael. P & Smith S. C. (2020), 13th Ed., Economic Development, Pearson, U.K. Thirwal, A.P. and Lopez, P. P. Economics of Development: Theory and Evidence (2017), Bloomsbury Publishing India Pvt. Ltd., New Delhi. Debraj Ray, Development Economics, (2009) Oxford University Press. Ghatak, S. (2003) Introduction to Development Economics, Routledge, London.	
Course Outcomes:	Students will be able to: 1. Explain the significance of technology in economic development. 2. Understand the role of policy in technological development 3. Examine the benefits and drawbacks of Transnational Corporations in economic	

	development. 4. Assess role of FDI in developing countries
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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	1	2	1	–	1	3	2	1	1
CO2	3	3	2	2	1	–	1	3	3	1	2
CO3	3	3	2	2	1	1	2	3	3	2	3
CO4	3	3	2	2	1	1	2	3	3	2	2

Name of the Programme	B.A. Economics
Course Code	ECO-322
Title of the Course	Financial Economics II
Number of Credits	4 (3T+1P)
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Financial Economics I or equivalent	
Course Objectives:	1. Comprehend the concepts of option markets, futures markets, and swaps. 2. Use binomial and Black-Scholes models to value options. 3. Evaluate risk management strategies using futures and swaps. 4. Assess the benefits and limitations of international diversification and hedge funds.	
Content:		No. of Hours
	Module 1: Option Market Introduction to Option Market; Option Contract; Meaning of Option Markets -Option Contract - The Options Clearing Corporation (OCC)- Other listed Options-Index Option, Futures Options, Foreign Currency Option, Interest Rate Option-Values of Option at Expiration-Call Option-Put Option Option Strategies: The Put-call Parity relationship; Protective Put-Covered Calls-Straddle-Spreads-Put-Call Parity Relationship Option-like Securities; Callable Bonds-Convertible Securities- Warrants-Collateralized loans-Levered Equity and Risk Debt Financial Engineering: Exotic Options -Asian Options- Barrier Options-Look back Options-Currency Translated Options -Digital Options	15
	Module 2: Option Valuation Introduction to Option Valuation; Introduction – Intrinsic and Time Values- Determinants of Option Values Restrictions on Option Values; Restriction on the Value of Call Option-Early Exercise and Dividends Binomial Option Pricing; Two State Option Pricing- Generalising the Two State Approach Black-Scholes Option Valuation; The Black-Scholes Formula- Dividends and Call Option Valuation- Put Option Valuation- Dividends and Put Option Valuation. Empirical Evidence on Option Pricing	15

	Practicals: Numerical examples for Option Pricing	
	Module 3: Future markets, swaps and Risk Management Mechanics of trading in Future Markets: Futures Markets Strategies; The Clearinghouse and Open Interest-The Margin Account and Marking to Market-Cash versus Actual Delivery- Regulations- Taxation; Hedging and Speculations-Basic Risk and Hedging-The Spot Futures Parity Theorem-Spreads- Forward versus Futures Pricing Futures Prices versus Expected Spot Prices; Futures Pricing versus Expected Spot Prices-Expectations Hypothesis- Normal Backwardation-Contango-Modern Portfolio Theory Foreign Exchange Futures; The Markets-Interest Rate Parity- Direct versus Indirect Quotes-Using Futures to Manage Exchange Rate Risk Stock-index Futures; The Contracts-Creating Synthetic Stock Positions: An Asset Allocation Tool-Index Arbitrage-Hedge Market Risk Interest rate Futures; Swaps; Hedging Interest Rate Risk- SWAPS-Interest Rate Swaps-Swaps and Balance Sheet Restructuring-The Swap Dealer-Other Interest Rate Contracts- Swap Pricing-Credit Risk in the Swap Market- Credit Default Swaps Commodity Futures Pricing; Pricing with Storage Costs- Discounted Cash Flow Analysis for Commodity Futures Practicals; A case study based on numerical analysis on topic: “Mechanics of trading in Future Markets: Futures Markets Strategies” of Module 3	15
	Module 4: International Diversification, Hedge Funds International diversification-meaning; Global markets for Equities; Global Markets for Equities- Emerging Markets-Market Capitalization and GDP Risk factors in international investing; Exchange Rate Risk- Country Specific Risk-International Investing; Risk, Return and Benefits from Diversification Hedge Funds; Hedge Funds versus Mutual Funds; Hedge Funds Introduction – Hedge Funds Versus Mutual Funds Hedge Funds Strategies; Style Analysis for Hedge Funds Directional and Non directional Strategies-Statistical Arbitrage- Style Analysis for Hedge Funds Practicals: A comparative analysis of one Hedge Fund Versus one Mutual Fund	15
Pedagogy:	Lectures/ case analysis/assignments/class room interaction	
Main Text:	1. Bodie Zvi, Alex Kane, Alan J. Marcus and Pitabas Mohanty (2015), Investments, 10th Edition, Tata McGraw Hill Education Pvt. Ltd. New Delhi	
References/ Readings:	1. Mark Hirchey , John Nofsinger (2008) Investment- Analysis and behavior, Tata mac Graw Hills Publishing Company Limitation, New Delhi. Maheshwari S. N. (2015), Management Accounting and Financial Control, Sultan Chand & Sons, New Delhi. Prasanna Chandra, Financial Management- Theory and Practice, Mc Graw Hills New Delhi. 10th Edition Khatri Kumar Dhanesh (2012), Investment Management and Security Analysis-Text & Case, 2nd Edition, MacMillan India Ltd. Bhole, L.M. (2009): Financial Institutions and Markets, Tata McGraw Hill, New Delhi	

	6. Pandey I. M. (2015) Financial Management, 11th Edition ,Vikas Publishing House Pvt. Ltd. New Delhi
Course Outcomes:	Students will be able to: 1. Explain Option Market. 2. Classify Option Valuation. 3. Analyze Future markets, swaps and Risk Management. 4. Relate International Diversification and Hedge Funds.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	2	2	2	3	1	2	2
CO2	3	3	2	3	2	2	2	3	2	2	2
CO3	3	3	2	3	1	1	2	3	3	3	2
CO4	3	3	2	3	1	2	2	3	2	2	2

Name of the Programme	B.A. Economics
Course Code	ECO 304
Title of the Course	Environmental Economics
Number of Credits	04
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Microeconomics 1&2 and Microeconomics 1&2 or equivalent	
Course Objectives:	To learn the implications of changing perspectives on the environment and use policy making to move towards sustainable development.	
Content:		No. of Hours
	Module 1: Introduction: The Economy And The Environment Changing Perspectives On The Environment; Resources, Environment And Economic Development	15
	Module 2: Economic Analysis Of The Environment The Theory Of Environmental Externalities Common Property Resources And Public Goods	15
	Module 3: Resource Allocation Over Time; Valuing The Environment	15
	Module 4: Environmental Policy Cost Benefit Analysis Pollution: Analysis And Policy	15
Pedagogy:	Lectures/ case analysis/assignments/class room interaction	
Main Text:	1. Jonathan M. Harris and Brian Roach (2018), Environmental and Natural Resource Economics: A Contemporary Approach by Routledge.	

References/ Readings:	1. Hanley, Nick, Shogren, Jason, White, Ben (2007) Environmental Economics In Theory and Practice, Pearson. 2. Tom Tietenberg (2007), Environmental Economic and Policy by Pearson.
Course Outcomes:	After the successful completion of the course, the student will be able to: 1. understand the changing perspectives of the environment. 2. know various issues concerning the environment. 3. apply the valuation methods of the environment. 4. frame policy on environmental issues.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	1	2	1	2	2	3	2	1	3
CO2	3	3	2	2	1	2	2	3	3	1	3
CO3	3	3	3	2	1	1	2	3	3	1	2
CO4	3	3	2	2	1	2	3	3	3	2	3

Name of the Programme	B.A. Economics
Course Code	ECO-305
Title of the Course	Growth Economics
Number of Credits	04
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Microeconomics 1&2 and Microeconomics 1&2 or equivalent	
Course Objectives:	The paper aims to introduce the concept of economic growth, theories related to growth, the role of capital and innovation in the growth process and population and sustained growth rate.	
Content:		No. of Hours
	Module 1: Introduction to Economic Growth Meaning and importance of Economic Growth, Distinction between Growth and Development, Measuring Economic Growth, Factors of Economic Growth (Economic and Non- Economic), Economic Growth and Income Distribution (Kuznets Hypothesis), Empirical Regularities about Economic Growth, Stages of Growth, Meaning and Characteristics of Modern Economic Growth.	15
	Module 2: Growth Models Classical growth theories: Adam Smith and David Ricardo, Harrod-Domar model application to LDCs, Joan Robinson's model, Robert Solow's model of long-run Growth, New Endogenous Growth models: Solow-Swan model, Arrow's Learning by doing, Romer- Lucas.	15
	Module 3: Capital, Innovation and Growth Accounting Introduction to capital and innovation, Measuring the Growth of total factor, Growth Accounting (Solow and Denison), Problems with Growth Accounting, Capital accumulation and Innovation, Meaning of Capital output ratio, Marx versus Kuznets pattern of Economic Growth, Technical progress (Hicks and Harrod), Understanding Growth Miracles.	15
	Module 4: Population and Sustained Growth Population and Living Standards, Malthusian and Post Malthusian Era, Modern Growth Era, Population Growth in Solow Model, Investing in Education	15
Pedagogy:	Lectures/ Case analysis of countries/assignment/classroom interaction	
Main Text:	1. Aghion Philippe & Peter Howitt (2009), Economics of Growth, The MIT Press Cambridge, Massachusetts London, England.	
References/ Readings:	1. Thirlwall, A.P. (2006). Growth and Development with special reference to Developing Economies, 8th Edition. Palgrave Macmillan, London. 2. Barro Robert J. and Xavier Sala-i-Martin (2004), Economic Growth, The MIT Press Cambridge, Massachusetts London, England. 3. Weil N. David (2013), Economic Growth, International Edition, Person 4. Jones Charles and Dietrich Vollrath (2013), Introduction to Economic Growth, W. W. Norton & Company, Inc. New York	

Course Outcomes:	The students will be able to: 1. Understand the concept of economic growth and the factors associated with it. 2. Explain the growth models along with their implications. 3. Explain the role of capital and innovation in the growth process. 4. Analyse the impact of population on economic growth.
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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	2	2	1	3	1	2	1
CO2	3	2	2	3	2	2	1	3	2	2	1
CO3	3	2	2	3	2	2	1	3	2	2	1
CO4	3	3	2	3	2	2	1	3	2	2	2

Name of the Programme	B.A. Economics
Course Code	ECO-306
Title of the Course	International Economics
Number of Credits	04
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Successfully completed Microeconomics 1&2 and Microeconomics 1&2 or equivalent	
Course Objectives:	To equip the students with the understanding of International Economics.	
Content:		No. of Hours
	Module 1: Introduction to International Trade International Trade, Migration and Foreign Direct Investment, Reasons for Trade, Ricardian Model, Determining the Pattern of International Trade, Solving for International Prices, Specific-Factors Model, Earnings of Labor, Earnings of capital and land	15
	Module 2: Trade and Resources Heckscher-Ohlin Model, Testing the Heckscher-Ohlin Model, Effects of Trade on Factor Prices, Movement of Capital Between Countries: Foreign Direct Investment, Gains from Labor and Capital Flows, New Explanations for International Trade: Basics of Imperfect Competition, Trade Under Monopolistic Competition, The North American Free Trade Agreement, Intra-Industry Trade and the Gravity Equation, A Model of Offshoring,	15
	Module 3: Free trade and Protection under different market structures A Brief History of the World Trade Organization, The Gains from Trade, Import Tariffs for a Small Country, Import Tariffs for a large country, Import Quotas, Tariffs and Quotas with Home monopoly, Tariffs with foreign Monopoly, Dumping, Policy response to dumping, Infant Industry Protection	15
	Module 4: International Trade Policies WTO goals on Agricultural commodities, Export subsidies in a small and large home country, Production subsidies, Export subsidies, Export Quotas, High technology export subsidies, Multilateral Trade Agreements, Regional Trade Agreements, International agreements on labour issues, International Agreements on the Environment	15
Pedagogy:	Lectures/ tutorials/assignments/self-study	
Main Text:	1. Robert C. Feenstra and Alan M. Taylor, Fourth edition, International Economics, Worth publishers	
Course Outcomes:	Upon successful completion of the course, students will be able to: 1. Analyze and determine the pattern of international trade between countries. 2. Analyze the effects of international trade on factor prices and factor incomes.	

	3. Evaluate the Impact of Trade Policies on Market Structures 4. Assess the goals and implications of international agreements.
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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	3	2	2	2	3	2	2	2
CO2	3	3	2	3	2	2	2	3	2	2	2
CO3	3	3	2	3	2	2	2	3	2	2	2
CO4	3	3	2	3	2	2	3	3	2	2	3

Name of the Programme	B.A. Economics
Course Code	ECO 323
Title of the Course	Basic Econometrics for Social Sciences
Number of Credits	04
Effective from AY	2024-25

Syllabus

Pre-requisite for the course:	Probability and Statistics 2 or equivalent	
Course Objectives:	The objective of the course is to introduce students to ● Basic econometric analysis. ● Use of appropriate econometric software	
Content:		No. of Hours
	Unit 1: Introduction to Econometrics: What is Econometrics? Basic Ingredients of an Empirical Study. Terms and terminology, examples of models Practical: Introduction to software and interface.	15L
	Unit 2: Review of Probability and Statistics: Random Variables and Probability Distributions; Mathematical Expectation, Mean, and Variance; Joint Probabilities, Covariance, and Correlation; Random Sampling and Sampling Distributions; Procedures for the Estimation of Parameters; Properties of Estimators; The Chi-square distribution, t- distribution, and F-distributions; Testing Hypotheses; Interval Estimation. Practical: Use sample data in software to explore: Distribution graphs, test statistic calculator, estimate descriptive statistics, covariance and correlation, testing of hypothesis (t-test: one and two samples; F-test: one and two samples).	10L + 10P
	Unit 3: The Simple Linear Regression Model The Basic Model; Estimation of the Basic Model by the Method of Ordinary Least Squares (OLS); Properties of Estimators; The Precision of the Estimators and the Goodness of Fit; Tests of Hypotheses; Scaling and Units of Measurement; Application: Estimating an Engel Curve Relation Between Expenditure on Health Care and Income; Confidence Intervals; Forecasting; Causality in a Regression Model; Application: Relation Between Patents and the Expenditures on Research and Development (R&D). Practical: Use sample data to estimate simple linear regression models with the OLS method in software and interpret the results of OLS output.	10L + 10P
	Unit 4: Multiple Regression Analysis Normal Equations; Goodness of Fit; General Criteria for Model Selection; Testing Hypotheses; Specification Errors; Application: The Determinants of the Demand for Bus Travel; Application: Women's Labor Force Participation; Empirical Example: Net Migration Rates and the Quality of Life. Practical: Use sample data to estimate multiple regression models with the OLS method in software and interpret the results of OLS output.	10L + 10P
Pedagogy:	Lectures/ case analysis/assignments/classroom interaction/lab practical	

Main Text:	1. Ramanathan, Ramu (2002) Introductory Econometrics with Applications, Pearson Education, Singapore.
References/ Readings:	1. Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. 2. Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics. McGraw Hill, 4th Ed., International Edition. 3. Gujarati, D.N. (2004) Basic Econometrics. 4th Edition, McGraw-Hill Companies. 4. Wooldridge, J. M. (2012, 2016). 6th edition, Introductory Econometrics: A Modern Approach, © 2016, 2013 Cengage Learning.
Course Outcomes:	Students will be able to: 1. Frame and test econometric models manually using Ordinary Least Squares. 2. Conduct econometric models using Ordinary Least Squares using software 3. Interpret results derived from simple and multiple regression models. 4. Incorporate qualitative variables into regression frameworks and interpret the results

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	2	1	1	3	3	2	1
CO2	3	3	3	3	3	2	1	3	3	3	1
CO3	3	3	3	3	2	2	1	3	3	3	2
CO4	3	3	3	3	2	2	2	3	3	3	3