



CIRCULAR

Addendum: GU/Acad –PG/BoS -NEP/2025/237 dated 09.07.2025

Circular: GU/Acad –PG/BoS -NEP/2024/245 dated 26.06.2024

In supersession to the above referred Addendum and Circular, the Syllabus of the **Bachelor of Arts in Economics** Programme is attached with following changes:

- Number of Credits for Course ECO-322 “Financial Economics II” shall be 3T+1P instead of 4T.

The Dean/ Vice-Dean (Academic) of the Goa Business School and Principals of the Affiliated Colleges offering the **Bachelor of Arts in Economics** Programme are requested to take note of the above and bring the contents of the Circular to the notice of all concerned.

(Ashwin V. Lawande)
Deputy Registrar – Academic

To,

1. The Dean, Goa Business School, Goa University.
2. The Vice-Dean (Academic), Goa Business School, Goa University.
3. The Principals of Affiliated Colleges offering the Bachelor of Arts in Economics Programme.

Copy to:

1. Chairperson, BoS in Economics.
2. Controller of Examinations, Goa University.
3. Assistant Registrar Examinations (UG), Goa University.
4. Directorate of Internal Quality Assurance, Goa University for uploading the Syllabus on the University website.

Programme Structure for Semester I to VIII Under Graduate Programme - Economics										
Semester	Major -Core	Minor	MC	AEC	SEC	I	D	VAC	Total Credits	Exit
I	ECO-100 Introduction to Economics (4)	ECO-111 Political Economy (4)	ECO-131 Sustainable Development (3)		ECO-141 Data Analysis – I (3) OR ECO-142 Introduction to Entrepreneurship (3)					
II		ECO-112 Political Economy II (4) (DELETED) ECO-113 Understanding Indian Economic Policy (4)	ECO-132 Globalization (3)		ECO-143 Data Analysis - II (03) OR ECO-144 Fundamentals of Entrepreneurship (03)					ECO-161 Income Tax (4)

III	ECO- 200 Micro- economics - I (4) ECO -201 Macro- economics – I (4)	ECO- 211 Primary Survey and Analysis (4)	ECO-231 Modern Indian Contributions to Economic Thought (3) OR ECO-232 Managerial Economics (3) OR ECO-233 Making of Economic Policy in India (3)	ECO-241 Data Analysis - III (3) OR ECO -242 Entrepreneurship Development (3)					
IV	ECO-202 Micro- economics -II (4)	ECO-221 Decision making with spreadsheets- 1 (4)							ECO-261 GST and Custom Duties in India (4)

	ECO-203 Macro- economics – II (4) ECO-204 Indian Economy (4) ECO-205 Development Economics - I (2)	OR ECO-222 Financial Economics-1 (4)						
V	ECO- 300 Basic Statistics (4) ECO- 301 Public Finance (4) ECO- 302 Research Methodology (4)	ECO -321 Decision making with Spreadsheets- 2 (4) OR ECO-322 Financial Economics-2 (3T+1P)						

	ECO- 303 Development Economics-II (2)								
VI	ECO- 304 Environmental Economics (4) ECO-305 Growth Economics (4) ECO-306 International Economics (4) ECO-307 Project (4)	ECO -323 Basic Econometrics for Social Sciences (4) OR ECO-324 Indian Financial System (4)							

Note: Programme Structure for Semester VII and VIII along with the Syllabus shall be provided later.

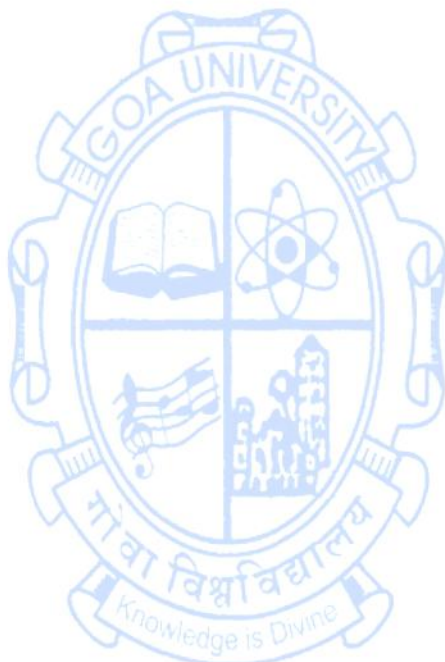
BA Economics		
UG Degree (Honours with Research) Programme with Double Major		
Semester	Label (Credits)	Major Course
I	Major-A1 (4)	ECO-100: Introduction to Economics
II	Major-B1 (4)	ECO-100: Introduction to Economics
III	Major-A2 (4)	ECO-201 Macroeconomics–I (4)
III	Major-B2 (4)	ECO-201 Macroeconomics–I (4)
IV	Major-A3 (4)	ECO-203 Macroeconomics–II (4)
IV	Major-A4 (4)	ECO-204-Indian Economy (4)
IV	Major-A5 (2)	ECO-205 Development Economics-I (2)
IV	Major-B3	ECO-204-Indian Economy (4)
V	Major-A6 (4)	ECO-300 Basic Statistics (4)
V	Major-A7 (4)	ECO-302 Research Methodology (4)
V	Major-A8 (2)	ECO-303 Development Economics-II (2)
V	Major-B4(4)	ECO-302 Research Methodology (4)
VI	Major-A9 (4)	ECO-306 International Economics (4)
VI	Major-A10 (4) (P)	ECO-307 Project (4)
VI	Major-B5 (4)	ECO-306 International Economics (4)
VI	Major-B6 (4)	ECO-305 Growth Economics (4)

BA Economics		
UG Degree (Honours) Programme with Double Major		
Semester	Label (Credits)	Major Course
I	Major-A1 (4)	ECO-100: Introduction to Economics
II	Major-B1 (4)	ECO-100: Introduction to Economics
III	Major-A2 (4)	ECO-201 Macroeconomics–I (4)
III	Major-B2 (4)	ECO-201 Macroeconomics–I (4)
IV	Major-A3 (4)	ECO-203 Macroeconomics–II (4)
IV	Major-A4 (4)	ECO-204-Indian Economy (4)
IV	Major-A5 (2)	ECO-205 Development Economics-I (2)
IV	Major-B3	ECO-204-Indian Economy (4)
V	Major-A6 (4)	ECO-300 Basic Statistics (4)
V	Major-A7 (4)	ECO-302 Research Methodology (4)
V	Major-A8 (2)	ECO-303 Development Economics-II (2)
V	Major-B4(4)	ECO-302 Research Methodology (4)
VI	Major-A9 (4)	ECO-306 International Economics (4)
VI	Major-A10 (4) (P)	ECO-307 Project (4)
VI	Major-B5 (4)	ECO-306 International Economics (4)
VI	Major-B6 (4)	ECO-305 Growth Economics (4)

Semester I & II**Name of the Programme : Bachelor of Arts in Economics****Course Code : ECO 100****Title of the Course : Introduction to Economics****Number of Credits : 04****Effective From AY : 2023-24**

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



Name of the Programme : BA Economics
Course Code : ECO 111
Title of the Course : Political Economy
Number of Credits : 4
Effective from AY : 2023-24

Pre-requisites 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 a. 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	15

	Global Inequality, Why International 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/	
References/ Readings:	Main Text Book: 1. Robin Hahnel, ABC's of Political Economy, Pluto Press. Reference 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:	On completion of the course, the students 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	

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.	
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
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ 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	

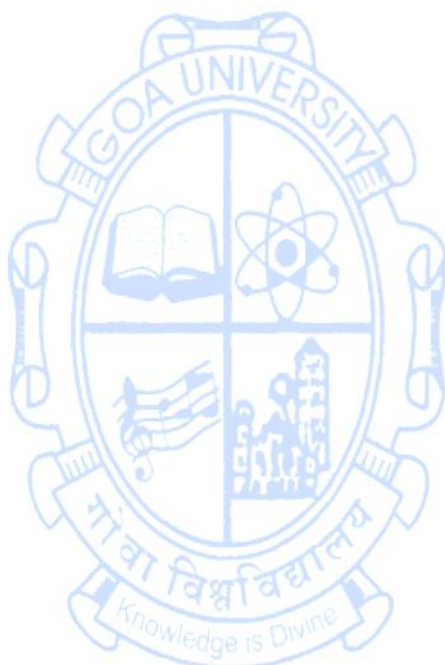
	- Abridged Version.pdf 3. Lynne Lewis, Thomas H. Tietenberg (2020) Environmental Economics and Policy, Routledge, London Additional References 1. Charles D. Kolstad (2012) Intermediate Environmental Economics, Oxford University Press, New Delhi 2. Stephen Smith (2011) Environmental Economics: A Very 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



Name of the Programme : B.A. Economics
Course Code : ECO 141
Title of the Course : Data Analysis I
Number of Credits : 03 (1L-0T-2P)
Effective from AY : 2023-24

Pre-requisites for the Course:	Same as programme pre-requisites	
Course Objectives:	The objective of the course is to Familiarize the students with Basic statistical concepts and their application using open-source software (spreadsheets and other OS software).	
Content:		No. of Hours
	Module 1: Introduction to statistical concepts: Defining statistics, Reasons for Using Statistical Methods, Understanding Probability and Random variables, Population vs Sample, Descriptive and Inferential statistics, Sample Statistics and Population Parameters, Idea of statistical significance, Classification of data (variables): Quantitative (Discrete and Continuous) and Qualitative (categorical); Primary and Secondary data sources, Data representation: Commonly used Tables and Graphs	5L+20P
	Module 2: Descriptive statistics: Measures of Central Tendency: Mean, Median and Mode); Measures of Dispersion: Range, Inter Quartile Range, Semi Quartile Range, Mean Deviation, Variance and Standard Deviation. Measures of Symmetry: Skewness and Kurtosis.	5L+20P
	Module 3: Analysis using Spreadsheets and OS software: (Practical Component) Data Processing in spreadsheets: Editing, Coding; Data representation: Commonly used Tables and Graphs (with interpretation), generating descriptive statistics. Gretl interface, importing data to Gretl, exploring inbuilt datasets for descriptive statistics and their interpretation.	5L+20P
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ Readings:	- Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai - Adkins, L. C. (n.d.). <i>Using gretl for Principles of Econometrics</i>, 5th Edition Version 1.0. - Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. - David M. Levine, David F. Stephan, Timothy C. Krehbiel, and Mark L. Berenson, Statistics for Managers: Using Microsoft Excel, Fifth Edition, Prentice Hall, Pearson Education, Inc.	

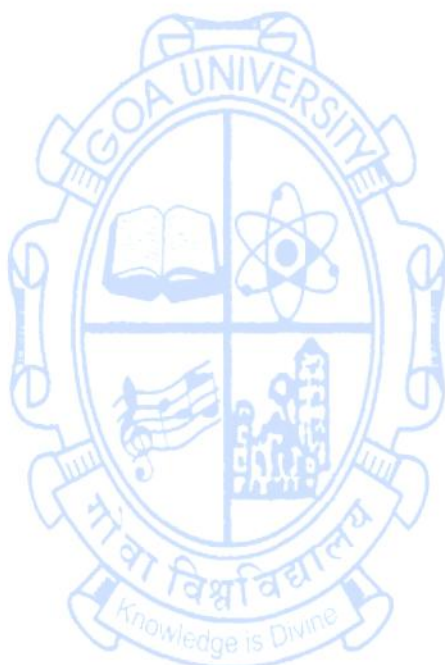
	6. G.C. Beri (2005): Business Statistics, 2nd Edition, Tata McGraw Hill Publishing Company Ltd, Delhi 7. Ron C. Mittel Hammer (2013): Mathematical Statistics for Economics and Business, 2nd Edition, Springer
Course Outcomes:	1. The students will gain insight into basic statistical concepts. 2. The students will be able to differentiate between statistical concepts. 3. The students will be able to calculate and interpret descriptive statistics. 4. The students will be able to represent and interpret data with tables and graphs using software. 5. The students will be familiarised with interface of open-source software.



Name of the Programme : B.A. Economics
Course Code : ECO 142
Title of the Course : Introduction to Entrepreneurship
Number of Credits : 3 (1L-0T-2P)
Effective from AY : 2023-24

Pre-requisites for the Course:	Student should have cleared 12th standard exam in any field.	
Course Objectives:	The objectives of this course are 1. to inspire students and help them imbibe an entrepreneurial mind-set. 2. introduce key traits and the DNA of an entrepreneur, 3. The Course comprises several short topics, each focusing on a specific entrepreneurial knowledge or skill requirement such as creative thinking, communication and resilience and helping them become career ready, whether it is entrepreneurship or any other career.	
Content:		No of hours
	Module 1: Introduction to Entrepreneurship: Meaning and concept of entrepreneurship, role of entrepreneurship in economic development. The charm of becoming an entrepreneur, Characteristics of successful entrepreneurs, skill gap analysis. Importance of communication in business management- Methods of communication in business. Communication skill, Listening skills, the power of effective communication.	5L+20P
	Module 2: Purpose and Components of a Business Plan/ Project Report. Ownership patterns in Business: Characteristics, Advantages and disadvantages of each form. Social responsibility of Business and Business Ethics.	5L+20P
	Module 3: Conduct Business survey through collection of primary and secondary data and preparation of a business plan and presentation. Visit to the Incubation centres, Discussion and preparing a report.	5L+20P
Pedagogy:	- Chalk and talk aided by ICT enabled lectures - Assignments and presentations - Group activity (Videos, In-class Activities, Outbound Activities)	
References/ Readings:	1. S. S. Khanka, Entrepreneurial Development, S. chand & company pvt . Ltd. 2. Cynthia L. Greene, Entrepreneurship: Ideas in Action, Thomson- South-Western. 3. Mary Coulter, Entrepreneurship in Action, 2 nd edition, prentice–Hall of India, Indian reprint. 4. Thomas W. Zimmerer, and Norman M. Scarborough, Essentials of Entrepreneurship and small business management, Prentice –Hall of India, 2006. 5. Vasant Desai, Dynamics of Entrepreneurship Development, Himalaya Publishing House.	

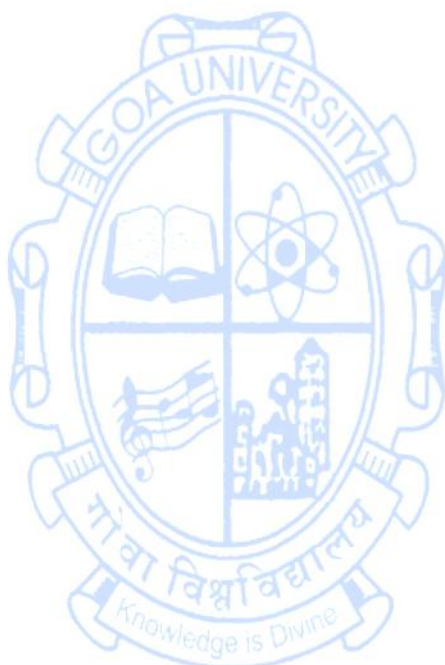
	6. Mirijana Radovic Markovic and Aidin Salamzadeh, The Importance of Communication in Business Management, PDF, Conference proceeding: The 7 th International Conference on Employment, Education and Entrepreneurship, Serbia.
Course Outcomes:	Upon completion of this course, the students will be able to: 1. assess their own strengths and identify gaps to become a successful entrepreneur. 2. develop an entrepreneurial mind-set with key skills in Communication, Preparation of business plan based on feasibility analysis. 3. Evaluate the need for social responsibility of Business, and 4. appreciate the importance of Business Ethics.



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

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objective:	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 Reference	Economic Survey 2022-23, Ministry of Finance, Government of India, New Delhi	
Additional References:	1. Datt and Sundaram, Indian Economy, S Chand and Co, New Delhi (recent edition)	

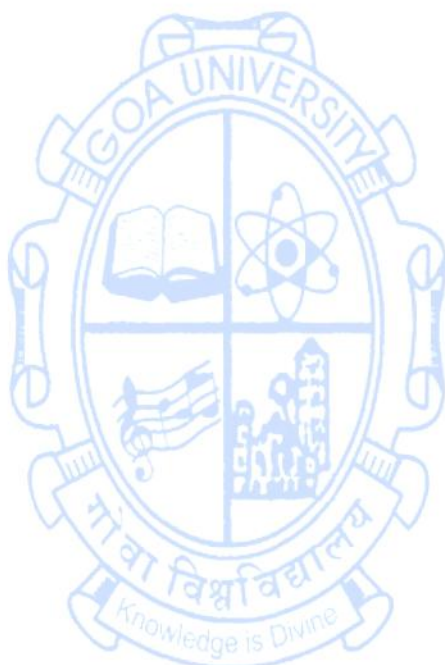
	2. Mishra and Puri, Indian Economy, Himalaya Publishing Co, Mumbai. (recent edition) 3. Handbook of the Indian Economy, Reserve Bank of India
Course Outcomes	After the successful completion of the course, students will be able to, 1. appraise fiscal and monetary policy 2. understand the dynamics of social infrastructure and employment 3. understand the recent policy initiatives for various sectors of Indian economy 4. evaluate the effectiveness of social infrastructure.



Name of the Programme : B.A. Economics
Course Code : ECO 132
Title of the Course : Globalisation
Number of Credits : 03
Effective from AY : 2024-25

Pre requisites 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.	

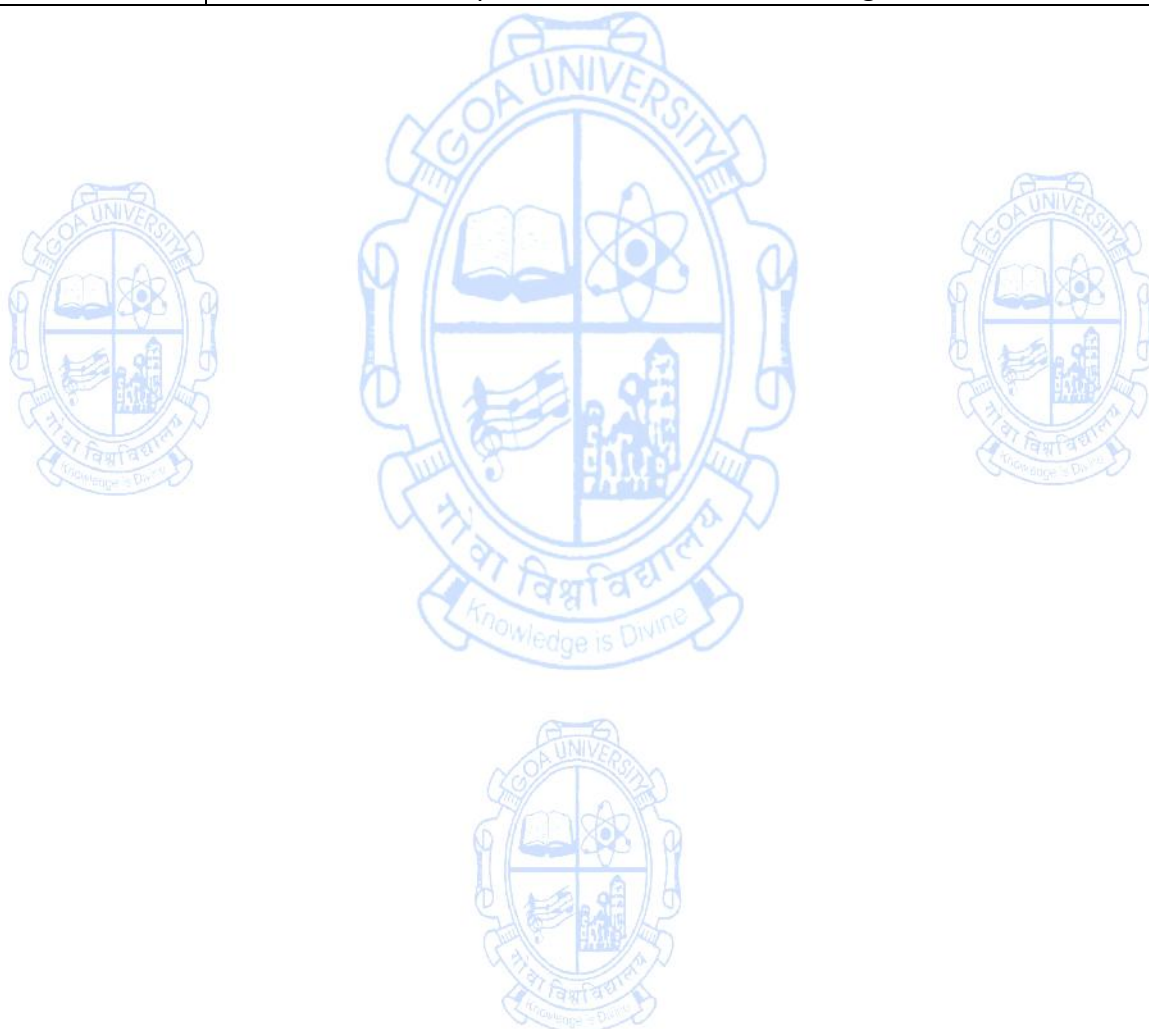
	7. John Naisbitt, The Global Paradox, Nicholas Brealey Publishing, London,1994, p. 186. Kenchi Ohmae, 7he Borderless World, Fontana, London, 1991. 8. John D. Sullivan, "Preparing in the Global Economy", Economic ReformToday, November 1, 2000.
Course Outcomes:	Upon completion of the course, the students 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.



Name of the Programme : B.A. Economics
Course Code : ECO-143
Title of the Course : Data Analysis II
Number of Credits : 03 (1L-0T-2P)
Effective from AY : 2023-24

Pre-requisites for the Course:	Completed Data Analysis I or similar	
Course Objectives:	The objective of the course: 1. To introduce students to inferential statistics. 2. To familiarize students with tests used for hypothesis testing. 3. To enable students, evaluate relationships between variables. 4. To familiarize students with causal inference using simple regression. 5. To enable students to interpret results from inferential statistics.	
Content:		No. of Hours
	Module 1: Introduction to Inferential Statistics: Introduction to Hypothesis Testing. Parametric and Non-Parametric tests: t test (one sample, two-sample: unpaired and paired), f-test, Analysis of Variance (ANOVA): hypothesis testing for more than two means, chi-square tests; Mann-Whitney Test; Wilcoxon Signed-Rank Test; Kruskal-Wallis Test; Type I and Type II errors; Power of a test, level of significance.	5L+20P
	Module: 2 Correlation and Causality: Finding relations among the variables-Correlation Analysis (Pearson's Correlation coefficient and Spearman's Rank Correlation coefficient), meaning, types and interpretation, differentiating between correlation and causality, Introduction to regression Analysis: Assumptions of CLRM (Classical linear regression model), terminology and concepts, , Simple regression (two-variable case) using Ordinary least square (OLS) method: Estimation and interpretation, Applications of regression analysis in economics and business.	5L+20P
	Module 3: Analysis using Spreadsheets and GRETL: (Practical Component) Hypothesis testing using software: T-test (one sample, two-sample: unpaired and paired), test for variance (one sample and two sample), Chi-square test using cross-tabulations. Computing Correlation matrix, Simple regression using OLS, interpreting simple regression models.	5L+20P
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ Readings:	Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA.	
Additional Readings	1. Ramanathan, Ramu (2002) Introductory Econometrics with Applications, Pearson Education, Singapore. 2. Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics. McGraw Hill, 4th Ed., International Edition.	

	3. Adkins, L. C. (n.d.). <i>Using gretl for Principles of Econometrics, 5th Edition Version 1.0.</i> 4. Wooldridge, Jeffrey M (2002), <i>Econometric Analysis of cross section and Panel Data</i>, MIT Press, USA 5. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. 6. David M. Levine, David F. Stephan, Timothy C. Krehbiel, and Mark L. Berenson, <i>Statistics for Managers: Using Microsoft Excel, Fifth Edition</i>, Prentice Hall, Pearson Education, Inc.
Course Outcomes:	Students will be able to: 1. Use hypothesis testing methods and interpret their results. 2. Differentiate between parametric and non-parametric tests. 3. Evaluate and interpret relationships between variables. 4. Interpret causal inference about variables using simple regression. 5. Obtain and Interpret results for inference using software.



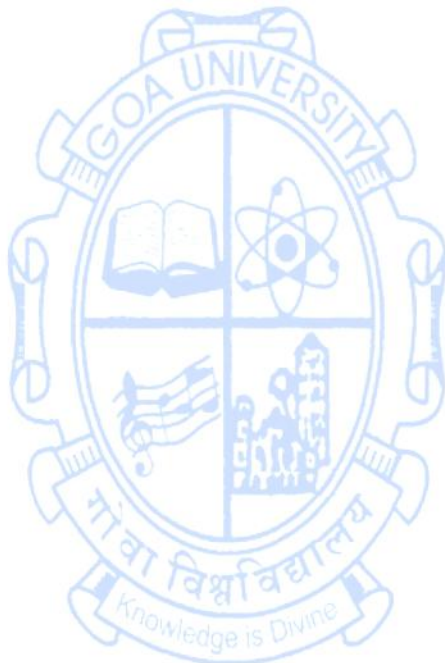
Name of the Programme : B.A. Economics
Course Code : ECO 144
Title of the Course : Fundamentals of Entrepreneurship
Number of Credits : 3 (1L-0T-2P)
Effective from AY : 2023-24

Pre-requisites 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
	Module 1: Human Resource management Issues: Strategic HRM, Bringing and managing people on board, motivating employees, Leadership and leadership Styles, Managing conflicts and empowering employees.	5L+20P
	Module 2: Marketing Management: Elements of Marketing and Sales Management: Marketing Channels; Marketing Mix; Nature of the Product/Service and Market Strategies. Market Survey. Advertising- Types, Media of Advertising.	5L+20P
	Module 3: Analysis of Advertisements, Visits to advertising agencies, finding about different software of preparing a good advertisement, conducting a marketing survey, Visit to marketing agencies and presentation of Findings.	5L+20P
Pedagogy:	● Chalk and talk aided by ICT enabled lectures ● Assignments and presentations ● Group activity (Videos, In-class Activities, Outbound Activities)	
References/ Readings:	1. S. S. Khanka, Entrepreneurial Development, S. chand & company pvt. Ltd. 2. Cynthia L. Greene, Entrepreneurship: Ideas in Action, Thomson- South-Western. 3. Mary Coulter, Entrepreneurship in Action, 2nd edition, prentice–Hall of India, Indian reprint. 4. Thomas W. Zimmerer and Norman M. Scarborough, Essentials of Entrepreneurship and small business management, Prentice –Hall of India, 2006. 5. Vasant Desai, Dynamics of Entrepreneurship Development, Himalaya Publishing House.	
Course Outcomes:	Upon completion of this course, the students will: 1. understand the Human Resource management issues and Leadership styles. 2. Understand consumer demand through market surveys 3. Understand the importance of team work and motivation 4. Influence consumer choice by Advertising, Marketing by different channels and personal selling.	

Exit Course**Name of the Programme** : B.A. Economics**Course Code** : ECO-161**Title of the Course** : Income Tax**Number of Credits** : 04 (1L-0T-3P)**Effective from AY** : 2024-25

Pre-requisite for the course:	Same as programme pre-requisites	
Course Objective/s:	This course is designed to familiarise the students with the basic concepts and the computation of Indian direct taxes.	
Content:		No. of Hours
	Module 1: Introduction to Taxation Importance of taxation; Principles of taxation; impact and incidence of a tax; equity and ability-to-pay; tax rates and structure of tax rates; direct and indirect taxes, advantages and disadvantages; efficient and inefficient taxes; shifting and evasion, legal basis for the introduction of a tax.	5T+ 15P
	Module 2: Income Tax: basic concepts Assessment year, previous year, who are included in "person", "assessee", "income" under the Income-tax Act, gross total income, total income, agricultural income, exemption and deduction, capital and revenue receipts, capital and revenue expenditure, exempted income, avoidance and evasion of tax. Residential status of an individual, Hindu undivided family, firms, association of persons and its relevance, residential status and incidence of tax.	5T+ 15P
	Module 3: Income under various heads Income under the head "Salaries", "Income from house property", "Profits and gains of business or profession", "Capital gains", "Income from other sources" and their computation, clubbing of income. Permissible deductions from gross total income (Chapter VI A) u/s 80C to 80 U. Agricultural income and its tax treatment.	5T+ 15P
	Module 4: Return of income and TDS Submission of returns, revised, updated, defective, incomplete, modified returns, Permanent Account Number (PAN), verification of returns, self-assessment, online filing, Form 26AS TRACES. Advance payment of tax. Deduction and collection of tax at source under different heads.	45P
Pedagogy:	Lectures/Case analysis/assignments/group discussions/ quiz/ presentations	
Main Texts:	1. Rosen, S. H. & Gayer, T. (2013). <i>Public Finance</i> , 8 th Edition, McGraw Hill Higher Education.	

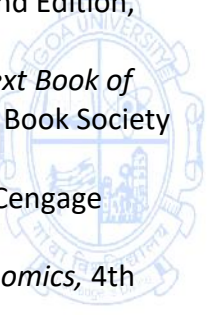
	2. Singhania, K. V. & Singhania, M. (2023). <i>Students' Guide to Income Tax Including GST</i> , 70 th Edition, Taxmann.
References/Readings:	1. Ahuja, G. Gupta, R. (2024). <i>Systematic Approach To Income Tax, Service Tax & VAT</i> , 49 th edition, Bharat Law House 2. Sreekantaradhya, B. S. (2000). <i>Structure and Reform of Taxation in India</i> , Deep & Deep, New Delhi. 3. T. N. Manoharan, G.R. Hari. (2024). <i>Students' Handbook on Taxation</i> , Snow White Publications Pvt. Ltd., Mumbai.
Course Outcomes:	The students will be able to 1. Understand the importance and principles of direct and indirect taxes. 2. Comprehend the basic concepts of direct (income) taxes. 3. Classify income under various heads as per the Indian Income Tax Act. 4. Compute Income tax liability for Individuals, Partnership Firms and Companies



Semester-III

Name of the Programme : B.A. Economics
Course Code : ECO-200
Title of the Course : Microeconomics – I
Number of Credits : 04 (4L)
Effective From AY : 2024-25

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.	
		No. of Hours
Content:	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 maximising 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). <i>Principles of Economics</i> , 12 th Edition. Pearson Education, New Delhi
References/ Readings:	  1. Pindyck, Robert S., Rubinfeld, Daniel L. and Mehta, Prem L. (2009). <i>Microeconomics</i> . 7 th Edition, Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi 2. Samuelson, Paul A. & Nordhaus, William D. (2010). <i>Economics</i> – 19 th Ed. Tata McGraw Hill, New Delhi. 3. Salvatore, Dominick (2004), <i>Microeconomic Theory</i> , (Schaum's outlines) 3 rd Edition, Tata McGraw Hill, New Delhi. 4. Hyman N. David (1996) <i>Microeconomics</i> , 4 th Edition, Irwin, USA. 5. Pindyck, Robert S., Rubinfeld, Daniel L. (2009). <i>Study Guide for Microeconomics</i> . 8 th Edition, Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi. 6. Tucker, Irvin, B. (1999), <i>Economics for Today</i> , 2 nd Edition, South-western college publishing, Thomson Learning, Australia. 7. Salvatore, Dominick (2004), <i>Principles of Microeconomics</i> , 5 th Edition, Oxford University Press, UK. 8. Gravelle, H. And R. Rees, (2004), <i>Microeconomics</i> , 2 nd Edition, Pearson Education Pvt. Ltd, New Delhi. 9. Stonier, Alfred, W. & Douglas G. Hague, (2006), <i>A Text Book of Economic Theory</i> , 5 th Edition, The English Language Book Society and Longman Group Ltd. London. 10. Tucker, Irvin, B. (2022), <i>Microeconomics for Today</i> , Cengage Learning. Australia. 11. Mankiw, Gregory, N. (2006), <i>Principles of Microeconomics</i> , 4 th Edition, Cengage Learning, Australia. 12. Lipsey, Richard, G. and K. Alec Chrystal, (2002). <i>Principles of Economics</i> , 9 th Edition, Oxford University Press, New Delhi, London.
Course Outcomes:	The students 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

Name of the Programme : B. A. Economics
Course Code : ECO-201
Title of the Course : Macroeconomics – I
Number of Credits : 04 (15L)
Effective from AY : 2024-25

Pre-requisite for the course:	Nil	
Course Objective/s:	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; Fiscal Policy at Work: Multiplier Effects: the Government Spending Multiplier, the Tax Multiplier, the Balanced-Budget Multiplier; The latest Central Budget;	15

	<i>The Economy's Influence on the Government Budget:</i> Automatic Stabilizers and Destabilizers, Full-Employment Budget.	
	Module 4: Money Supply and the Reserve Bank of India <i>An Overview of Money:</i> Definition of money, functions, types, RBI Indices of Money Supply, the Banking System in India; <i>Monetary Policy and Credit Creation:</i> 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 <i>The Reserve Bank of India:</i> 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). <i>Principles of Economics</i>. 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). <i>Macroeconomics</i>, 8th edition. Pearson Education, New Delhi. 2. Froyen, R. T. (2013). <i>Froyen: Macroeconomics</i>. 10th edition, Pearson Higher Ed. 3. Irvin Tucker (2022). <i>Macroeconomics for Today</i>, 11th edition, Cengage Publisher 4. Mankiw, N. Gregory (2022). <i>Macroeconomics</i>. 11th edition, Macmillan Learning 5. Samuelson, P. A., & Nordhaus, W. D. (2021). <i>Macroeconomics</i>. 20th edition, Pearson 6. https://www.indiabudget.gov.in/	
Course Outcomes:	The students 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.	

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

Pre-requisites 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 s 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,	10L+10P

	Median, Mode), Relationship between Mean, Median and Mode; Measures Dispersion (Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation) 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:	The 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	

Name of the Programme : B.A. Economics
Course Code : ECO-231
Title of the Course : Modern Indian contributions to Economic Thought
Number of Credits : 3
Effective from AY : 2024-25

Pre-Requisites for the course:	Same as programme pre-requisites	
Course Objective:	To familiarise students with Indian Nobel laureate winners' perspectives on economic policy, ethics and inequality	
Content:		No. of Hours
	Unit 1: On Ethics and Economics by Amartya Sen Economic Behaviour and Moral Sentiments Two Origins, Achievements and Weakness, Economic Behaviour and Rationality, Rationality as consistency, Self-interest and Rational behaviour, Adam Smith and Self-interest Economic Judgements and Moral Philosophy Interpersonal comparisons of utility, Pareto Optimality and Economic Efficiency; Utility, Pareto Optimality, and Welfarism; Well-being and agency, Valuing and value, Agency, and Well-being: Distinction and Interdependence, Utility and Well-being; Achievements, Freedom, and Rights; Self-interest and Welfare Economics, Rights and Freedom Freedom and Consequences Well-being, agency, and freedom; Plurality and evaluation, Incompleteness and Overcompleteness, Conflicts and Impasse, Rights and Consequence, Consequential Assessment and Deontology, Ethics and Economics; Welfare, Goals, and Choices; Conduct, Ethics, and Economics	15
	Unit 2: Poor Economics by Abhijit Banerjee (Part I - Private Lives) Think again, again Trapped in Poverty? A Billion Hungry People? Are there really a billion hungry people, Are the poor really eating well and eating enough, Why do the poor eat so little, So is there really a nutrition-based poverty trap. Low-hanging fruit for better (Global) health The health trap, Why aren't these technologies used more, understanding health-seeking behaviour, The view from our couch Top of the class Supply-demand wars, The curse of expectations, Why schools fail, Reengineering education Pak Sudarno's big family What is wrong with large families, Do the poor control their fertility decisions, Children as financial instruments, The family	15
	Unit 3: Poor Economics by Abhijit Banerjee (Part II – Institutions) Barefoot hedge-fund managers	15

	The hazard of being poor, The hedge, Where are the insurance companies for the poor The men from Kabul and the Eunuchs of India: The (not so) simple Lending to the poor, Micro insights for a macro programme, Doe microcredit work, The limits of microcredit, How can larger firms be financed Saving Brick by Brick Why the poor don't save more, The psychology of savings, Poverty and the logic of Self-control Reluctant Entrepreneurs Capitalists without capital, The businesses of the poor, Good jobs Policies, Politics Political Economy, Changes at the margin, Decentralisation and democracy in practice, Against political economy	
Pedagogy:	Lectures/Case analysis/Assignments/Classroom discussions/Self-study	
Main Text:	1. Sen, A (1987): On Ethics and Economics, Blackwell Publishing 2. Banerjee, A, Duflo, E (2019): Poor Economics, Random House India	
Additional References:	1. Miller, R (2010): Globalizing Justice: The ethics of poverty and power, Oxford University Press 2. Albert, P, et. al. (2014): Global Poverty Alleviation: A Case Book, Springer Netherlands 3. Elke, M, et. al. (2009): Absolute Poverty and Global Justice, Routledge	
Course Outcome:	The students will be: 1. able to critically evaluate the perspectives of the Indian Nobel Prize winners in Economics on 2. assess the role of ethics and poverty in wellbeing 3. apply an ethical framework to inequality and growth 4. understand the role of sentiments in determining economic outcomes	

Name of the Programme : B.A. Economics
Course Code : ECO-232
Title of the Course : Managerial Economics
Number of Credits : 03
Effective from AY : 2024-25

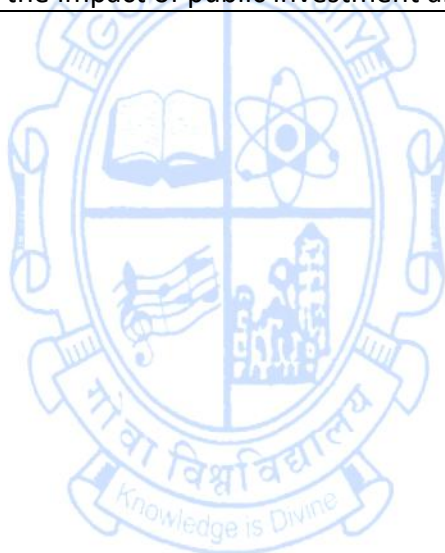
Pre-requisites for the Course:	Same as Programme pre-requisites	
Course Objectives:	Objectives of the Course are: 1. To enable students to understand fundamental economic concepts and their applications in the managerial decision-making process. 2. To acquaint students with the various market structures and contextualize them in the real business world. 3. To develop the problem-solving skills of students by applying formulae & tools learned under various pricing and capital budgeting methods.	
Content:		No. of Hours
	 Unit 1: Managerial Economics and Economic Concepts. Meaning, nature, scope, and role of managerial economics. Economic concepts relevant to Business decision-making - Market demand, Market supply, Production, Distribution, and Consumption (only meaning/concept). Cost, Opportunity cost, Revenue, Price and Profit, (only meaning, basic formula, and examples). Demand Analysis for various products (e.g. durable & non-durable, substitute & complimentary, essential, comfort and luxury). Market Structure based on period (short term and long term) and the degree of competition viz. perfect competition, oligopoly, monopolistic competition, and monopoly (meaning and 6-7 features of each market).	15
	Unit 2: Pricing Decisions, Policies & Practices. Pricing Methods and Strategies – Cost-based pricing(cost plus, marginal cost & target return pricing), Competition based pricing(penetration, entry deterring and going rate pricing), Product life cycle-based pricing(price skimming, packaging, perceived value, loss leader pricing), Cyclical pricing (rigid and flexible pricing), Multi-product pricing, Peak load pricing, Sealed bid pricing, Retail pricing, Administered pricing, Export pricing, International price discrimination, and dumping.	15
	Unit 3: Profit Analysis and Uncertainty under Oligopoly. a.Profit Analysis and Uncertainty in Business: Meaning, Different concepts, and role of profit; profit policy, profit maximization, and limiting factors. Oligopoly as a case of uncertainty in business– Main features in brief, non-collusive (Cournot’s duopoly model, and, kinked demand model. Prisoner’s dilemma,), collusive(Cartels, price leadership, dominant firm model).. b.Capital Budgeting: Meaning; Nature; Significance; Factors influencing investment decisions; Types	15

	of projects; steps in capital project evaluation; Cost of Capital, equity capital, debt capital, weighted average cost of capital(concept and numerical problems).	
Pedagogy:	Lectures, Case studies, Class presentations, small surveys.	
Text Book/References	1. Thomas C.R., & Maurice S.C. (2018) <i>Managerial Economics, Foundations of Business Analysis & Strategy</i> (10ed.) McGraw Hill Education (India) Pvt. Ltd. New Delhi.	
Reference/ Readings:	1. Kotler, P., & Armstrong, G. (2010). <i>Principles of marketing</i> (13th ed.). Upper Saddle River, NJ: Pearson Prentice Hall. 2. Mote, V.L., Paul S., and Gupta G.(2017) <i>Managerial Economics: Concepts and Principles</i> , Tata McGraw Hill, New Delhi. 3. Samuelson, W. F., & Marks, S. G. (2010). <i>Managerial Economics</i> (6th ed.). Hoboken, NJ: John Wiley & Sons. 4. Indira Gandhi National Open University (IGNOU): School of Management: Managerial Economics- MS/9. IGNOU, New Delhi. 5. Allen W.B., Welgelt K., Doherty N.& Mansfield E (2019) <i>Managerial Economics, Theory, Applications and Cases</i> . (7 th ed.). Viva Books Pvt. Ltd; New Delhi.	
Course Outcomes:	After completion of this course, the learners will be able to: 1. Explain the fundamental concepts of economics in management 2. Apply various pricing and profits concepts and tools in practical business decision-making. 3. Examine the significance of uncertainty 4. Assess the Role of market imperfections	

Name of the Programme : B.A. Economics
Course Code : ECO 233
Title of the Course : Making of Economic Policy in India
Number of Credits : 03
Effective from AY : 2024-25

Pre-requisites for the Course:	Same as Programme pre-requisites	
Course Objectives:	Objectives of the Course are: To enable students to understand and evaluate the performance of India's economic policies and the Union Budget of India	
Content:		No. of Hours
	Module 1: Understanding the Indian Budget process Need for the Budget, Understanding the process of budget making in India, Analysis of budget in terms of various parameters such as: a) Deficits –trends in fiscal deficit and revenue deficit b) Receipts - proposed sources of revenue and expected growth in revenue; steps taken to increase revenue such as tax simplification, improvement in tax administration, expansion of tax net; c) Expenditure -expenditure pattern and expected growth in expenditure; The thrust areas of the budget; areas / sectors which have received higher or lower share of expenditure, reasons and consequences thereof; steps proposed to ensure effective spending	15
	Module 2: Basic Concepts of Fiscal Policy Management Fiscal policy, Objectives of Fiscal Policy, Fiscal Responsibility and Budget Management Act (FRBM), Areas of government spending in India, Capital expenditure, revenue expenditure, plan expenditure, non-plan expenditure - Deficits (fiscal, primary, revenue), impact of fiscal deficit on economy, need to control fiscal deficits - Capital receipts, revenue receipts, tax and non-tax revenue, direct and indirect taxes, need to rationalize tax structure. Goods and Services Tax (GST). Zero-base budgeting, Gender budgeting, Fiscal devolution and centre-state financial relations in India.	15
	Module 3: Public Investment and Infrastructure Physical and Digital Infrastructure Policies of India (Public-Private Partnerships, National Infrastructure Pipeline, National Monetisation Pipeline, National Logistic Policy, PMGatiShakti, Developments in Physical infrastructure viz: Road, Railways, Civil-aviation, Ports, Inland Water, Electricity (last decade), Growth Story of Digital Public Infrastructure, Progress and Achievements of National Action Plan on Climate Change (NAPCC) with special reference to Eight National Missions, Finance for sustainable Development.	15
Pedagogy:	Lectures, Group discussions, Seminars, Case studies, Field work	
Reference/ Readings:	Main Text: 1. Economic Survey (latest), Government of India, Ministry of Finance, Government of India. (Physical and Digital Infrastructure, Climate Change and Environment).	

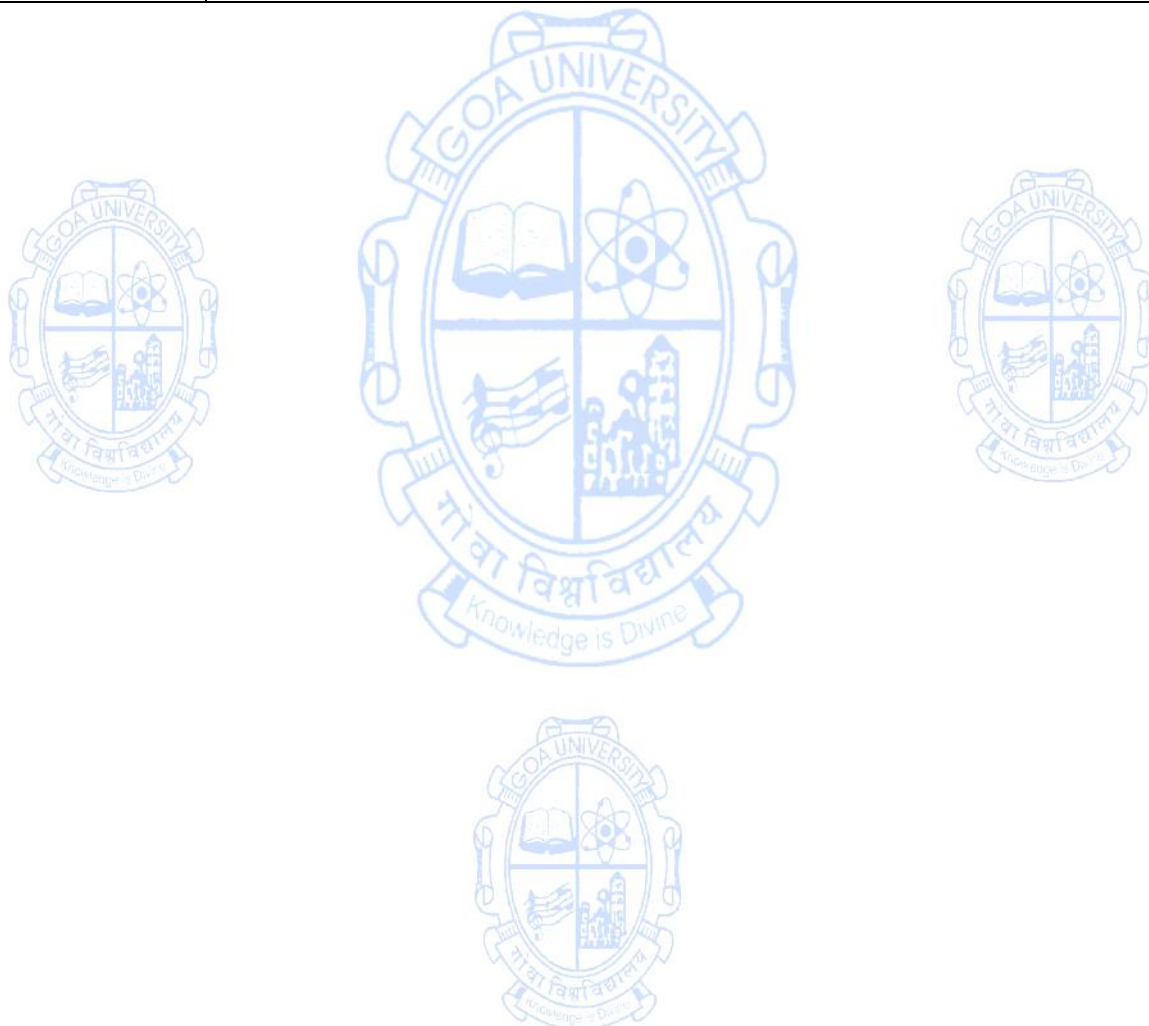
	2. Union Budget of India, Ministry of Finance, Government of India Additional Readings: 1. Uma Kapila (2023-24), "Fiscal and Budgetary Developments", in Indian Economy Since Independence, (34th edn.), Academic Foundation. 2. Pranab Mukherjee (2012), "Budget Making", in K. Basu and A. Maertens, The New Oxford Companion to Economics in India, (3rd edn.) Oxford University Press. 3. Dipak Dasgupta and Supriyo De (2012), "Fiscal Deficit", in Basu and Maertens, The New Oxford Companion to Economics in India, (3rd edn.) Oxford University Press. 4. A guide to Using Budget Analysis, Centre for Budget and Governance Accountability, 5. Handbook of Indian Economy, Reserve Bank of India
Course Outcomes:	After completion of this course, the learners will be able to: 1. Understand the basic terminology of Union Budget 2. Evaluate the Progress and Performance of India's Economic Policies 3. Critically Evaluate the Performance of Union Budget 4. Assess the impact of public investment and infrastructure in India



Name of the Programme : B.A. Economics
Course Code : ECO 241
Title of the Course : Data Analysis III
Number of Credits : 03 (1L-0T-2P)
Effective from AY : 2024-25

Pre-requisites for the Course:	Data Analysis I & II or equivalent	
Course Objectives:	The objective of the course is: 1. To extend the students' understanding of causal inference to multiple regression and probabilistic models 2. To enable students to undertake data analysis techniques to build predictive models. 3. To familiarize students with problems associated with regression models.	
Content:		No. of Hours
	Unit 1: Multiple Linear Regression Model Introduction, Assumptions, Model with Two Independent Variables, Obtaining the OLS Estimates; Goodness of fit (R^2 and adjusted R^2); interpreting results, Comparison of Simple and Multiple Regression Estimates; functional forms of regression models; Use of dummy variables as regressors; Interaction effects. Practical: Estimating Multiple regression models in Spreadsheets and GRETL, interpreting models, generating and using dummy variables, and interaction effects in models.	5L +20P
	Unit 2: Violation of Assumptions Problems associated: Multicollinearity, Heteroscedasticity, and Autocorrelation (meaning, detection, consequences, and remedies). Practical: Testing for Multicollinearity, Heteroscedasticity, and Autocorrelation.	5L +20P
	Unit: 3: Limited Dependent Variable Models: Linear Probability model (LPM); Logit and Probit Models for Binary Response, Specifying Logit and Probit Models, Maximum Likelihood Estimation of Logit and Probit Models, Testing Multiple Hypotheses, Interpreting the Logit and Probit Practical: Estimating and interpreting Limited Dependent Variable Models.	5L +20P
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ Readings:	Main text: Ramanathan, Ramu (2002) Introductory Econometrics with Applications, Pearson Education, Singapore.	
Additional References:	1. Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics. McGraw Hill, 4th Ed., International Edition. 2. Wooldridge, Jeffrey M (2002), Econometric Analysis of cross section and Panel Data, MIT Press, USA	

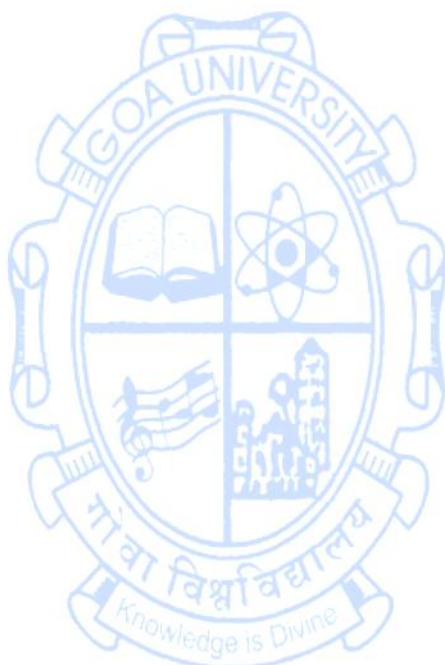
	3. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. 4. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. 5. Adkins, L. C. (n.d.). <i>Using gretl for Principles of Econometrics, 5th Edition Version 1.0.</i> 6. David M. Levine, David F. Stephan, Timothy C. Krehbiel, and Mark L. Berenson, Statistics for Managers: Using Microsoft Excel, Fifth Edition, Prentice Hall, Pearson Education, Inc.
Course Outcomes:	The students will be able to : 1. Build and interpret multiple regression and probabilistic models. 2. Interpret the use of dummy variables in regression models. 3. Test regression models for associated violations of their assumptions. 4. Analyse data using open-source software.



Name of the Programme : B.A. Economics
Course Code : ECO 242
Title of the Course : Entrepreneurship Development
Number of Credits : 03 (1L-0T-2P)
Effective from AY : 2024-25

Pre-requisites 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)	
References/ Readings:	Main Text: 1. S. S. Khanka, Entrepreneurial Development, S. Chand & company pvt . Ltd. Reference Books: 1. Cynthia L. Greene, Entrepreneurship: Ideas in Action, Thomson- South-Western. 2. Mary Coulter, Entrepreneurship in Action, 2 nd 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:	Upon completion of this course, the students will 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 he required skills	

	by organising events. 4. Learn the techniques of stress management.
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Semester IV

Name of the Programme : B.A. Economics
Course Code : ECO-202
Title of the Course : Microeconomics – II
Number of Credits : 04 (4L)
Effective form AY : 2024-25

Pre-requisite for the course:	Successfully completed Microeconomics 1 or equivalent	
Course Objective/s:	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:	Lecture/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). <i>Principles of Economics</i> , 9 th Edition. Pearson Education, New Delhi.	
References/Readings:	1. Pindyck, Robert S., Rubinfeld, Daniel L. and Mehta, Prem L. (2009). <i>Microeconomics</i> . Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi	

	2. Samuelson, Paul A. & Nordhaus, William D. (2010). <i>Economics</i> – 19th Ed. Tata McGraw Hill, New Delhi. 3. Salvatore, Dominick (2004), <i>Microeconomic Theory</i>, (Schaum's outlines) 3rd Edition, Tata McGraw Hill, New Delhi. 4. Hyman N. David (1996) <i>Microeconomics</i>, 4th Edition, Irwin, USA. 5. Pindyck, Robert S., Rubinfeld, Daniel L. (2009). <i>Study Guide for Microeconomics</i>. 8th Edition, Pearson Education. [Dorling Kindersle (India) Pvt. Ltd.] New Delhi. 6. Tucker, Irvin, B. (1999), <i>Economics for Today</i>, 2nd Edition, South-western college publishing, Thomson Learning, Australia. 7. Salvatore, Dominick (2004), <i>Principles of Microeconomics</i>, 5th Edition, Oxford University Press, UK. 8. Gravelle, H. And R. Rees, (2004), <i>Microeconomics</i>, 2nd Edition, Pearson Education Pvt. Ltd, New Delhi. 9. Stonier, Alfred, W. & Douglas G. Hague, (2006), <i>A Text Book of Economic Theory</i>, 5th Edition, The English Language Book Society and Longman Group Ltd. London. 10. Tucker, Irvin, B. (2022), <i>Microeconomics for Today</i>, Cengage Learning.
Course Outcomes:	The students 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.

Name of the Programme : B.A. Economics
Course Code : ECO-203
Title of the Course : Macroeconomics – II
Number of Credits : 04 (4L)
Effective from AY : 2024-25

Pre-requisite for the course:	Successfully completed Macroeconomics-1 or equivalent	
Course Objective/s:	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.	
		No. of Hours
Content:	Module 1: Money Demand and the Equilibrium Interest Rate <i>Interest Rates and Bond Prices:</i> meaning of interest and bond, relationship between interest rates and bond prices <i>The Demand for Money:</i> 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; <i>The Equilibrium Interest Rate:</i> 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 <i>Planned Investment and the Interest Rate:</i> meaning of Investment, Investment and Interest Rate, other determinants of Planned Investment, Planned Aggregate Expenditure and the Interest Rate; <i>Equilibrium in both the Goods and Money Markets</i> <i>Policy Effects in the Goods and Money Markets:</i> Expansionary Policy effects, Contractionary Policy effects, the Macroeconomic Policy Mix; <i>Aggregate Demand (AD):</i> the concept of Aggregate Demand, the Aggregate Demand Curve, slope of the Aggregate Demand Curve, shifts of the Aggregate Demand Curve from Policy Variables; <i>Aggregate Supply (AS):</i> the concept of Aggregate Supply; Aggregate Supply Curve in the short run; shifts in the short run Aggregate Supply Curve; <i>The Equilibrium Price Level:</i> Macroeconomic equilibrium; <i>The Long-Run Aggregate Supply Curve:</i> Potential GDP; <i>Monetary and Fiscal Policy Effects:</i> Long-Run Aggregate Supply and Policy Effects	15
	Module 3: The IS-LM Model of Integration of Commodity and Money Market	15

	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	
	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:	Case, K. E., Fair, R. C., & Oster, S. M. (2020). <i>Principles of Economics</i> . 13 th edition, Prentice Hall.	
References/Readings:	1. Blanchard, Oliver and Johnson R. David (2021). <i>Macroeconomics</i>, 8th edition. Pearson Education, New Delhi. 2. Froyen, R. T. (2013). <i>Froyen: Macroeconomics</i>. 10th edition, Pearson Higher Ed. 3. Irvin Tucker (2022). <i>Macroeconomics for Today</i>, 11th edition, Cengage Publisher 4. Mankiw, N. Gregory (2022). <i>Macroeconomics</i>. 11th edition, Macmillan Learning 5. Samuelson, P. A., & Nordhaus, W. D. (2021). <i>Macroeconomics</i>. 20th edition, Pearson.	
Course Outcomes:	The students 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 economy.	

Name of the Programme : B.A. Economics
Course code : ECO-204
Title of the course : Indian Economy
Number of credits : 4
Effective from AY : 2024-25

Pre - requisites 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.	15

	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 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)	
References/Reading	<u>Main Text Book-</u> 1. V K Puri, S.K Mishra and Bharat Garg (2022): Indian Economy: its Development Experience, Himalaya Publishing House, Mumbai. <u>Additional Readings</u> 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 Outcome	Upon completion of the course, the students 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	

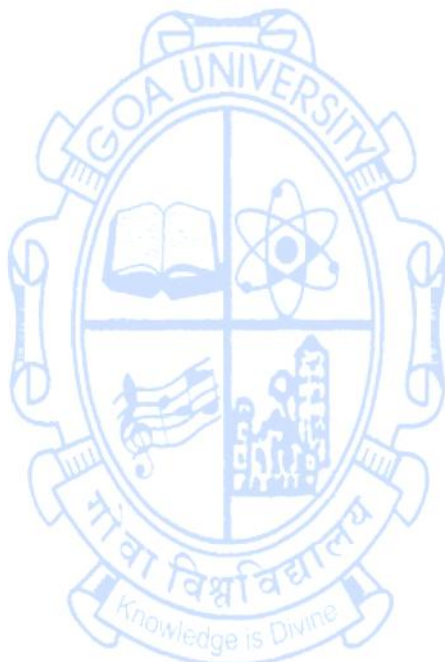
Name of the Programme : B.A. Economics
Course Code : ECO- 205
Title of the Course : Development Economics - I
Number of Credits : 2
Effective from AY :2024-25

Pre-requisites 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.	
References/ Readings:	Main Text Book: Cypher, J. M. & Dietz, J. L. (2020), The Process of Economic Development, Routledge, London.	
	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:	Upon completion of the course, the students 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	

Name of the Programme : B.A. Economics
Title of the Course : Decision Making with Spreadsheets I
Course Code : ECO 221
Number of Credits : 4 (3T+1P)
Effective from AY : 2024-25

Pre-requisites for the Course:	Same as Programme pre-requisites	
Course Objectives:	The objective of the course is to Introduce the students with decision-making tools using spreadsheets	
		No. of Hours
Content:	Unit 1: Introduction to Decision Making using spreadsheets: Range Names, Lookup Functions, Index Function, Match Function, Text Functions, Dates and Date Functions, Evaluating Investments by Using Net Present Value Criteria, Internal Rate of Return, More Financial Functions, Circular References, If Statements, Time and Time Functions, Paste Special Command.	15L
	Unit 2: Preliminaries to Decision Analysis: Three-dimensional formulas, The Auditing Tool, Sensitivity Analysis with Data Tables, The Goal Seek Command, Using the Scenario Manager for Sensitivity Analysis, The COUNTIF, COUNTIFS, COUNT, COUNTA, and COUNTBLANK Functions, The SUMIF, AVERAGEIF, SUMIFS, and AVERAGEIFS Functions, The OFFSET Function, The INDIRECT Function, Conditional Formatting, Sorting in Spreadsheets, Tables, Spin Buttons, Scroll Bars, Option Buttons, Check Boxes, Combo Boxes and Group List Boxes.	10L+10P
	Unit 3: Decision Analysis using Solver: An Introduction to Optimization with Solver, Using Solver to Determine the Optimal Product Mix, Using Solver to Schedule Your Workforce, Using Solver to Solve Transportation or Distribution Problems, Using Solver for Capital Budgeting,	10L+10P
	Unit 4: Advanced uses of solver for decision making: Using Solver for Financial Planning, Using Solver to Rate Sports Teams, Warehouse Location and the GRG Multistart and Evolutionary Solver Engines, Penalties and the Evolutionary Solver, The Traveling Salesperson Problem	10L+10P
Pedagogy:	Lectures/ case analysis/assignments/classroom interaction/lab practical	
References/ Readings:	Main Text: 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press Additional References: 1. Levine, D., Stephan, D., & Szabat, K., Statistics for Managers Using Microsoft® Excel®, 7th ed., 2013. Upper Saddle River, NJ: Prentice Hall. 2. Introduction to Management Science: Quantitative Approaches to Decision Making, by David Anderson, Dennis J. Sweeney, Thomas	

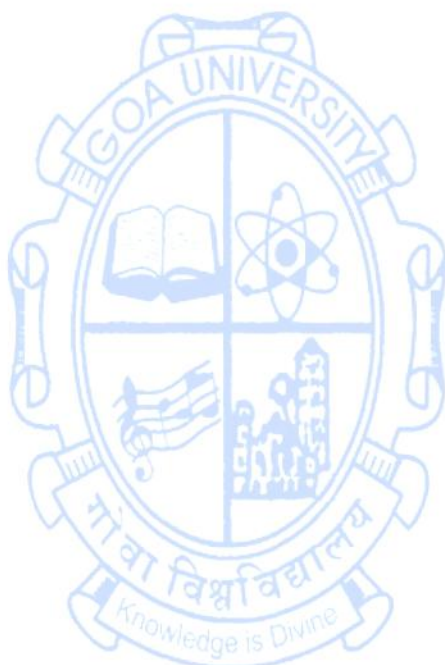
	Arthur Williams.
Course Outcomes:	Students will be able to: 1. Familiarise with multiple spreadsheet commands for general day-to-day use 2. Apply spreadsheet commands and functions in decision-making 3. Use a spreadsheet solver for optimisation problems 4. Use advanced spreadsheet techniques for multiproblem solutions



Name of the Programme : B.A. Economics
Title of the Course : Financial Economics I
Course Code : ECO 222
Number of Credits : 4 (3T+1P)
Effective from AY : 2024-25

Pre-requisites 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	
References/ Readings:	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 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. 10 th 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:	After the successful completion of the course, the 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

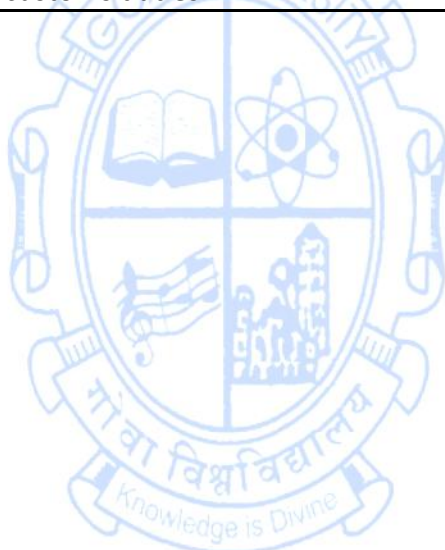


Exit Course

Name of the Programme : B.A. Economics
Course Code : ECO-261
Title of the Course : GST and Custom duties in India
Number of Credits : 04 (1L+3P)
Effective from AY : 2024-25

Pre-requisite for the course:	Same as Programme pre-requisites	
Course Objective/s:	This course is designed to familiarise the students with the basic concepts and the computation of GST and customs duties in India.	
Content:		No. of Hours
	Module 1: Introduction Direct vs. Indirect taxes, evolution of Indirect Taxation in India, types of Indirect Taxes in India, importance of Goods and Service Tax, GST Council, definitions under CGST Act, 2017, taxation system before and after implementation of GST, taxes submerged in GST	5T+ 15P
	Module 2: GST: basic concepts and legal framework Basic terms: Goods, Capital goods, Services, Person, Agent, Business, Supply of Goods/Services (including Inter State and Intra State), Removal Input, Goods, Services, Services Distributer, Tax Credit, Time, Value, and Place of Supply location of recipient, location of Suppliers, rendering of Services. Central GST, State GST, Union Territories GST, Integrated GST.	5T+ 15P
	Module 3: GST: procedural requirements Registration Under GST, Input Tax Credit, Composition Scheme, Reverse Charge, E-commerce, E-invoicing and E-way Bill, Tax Invoice, Credit and Debit Notes Returns, Payment of Tax and Refunds, Accounts and Records, Assessment and Audit, Demand, Recovery.	5T+ 15P
	Module 4: Customs Duties Importance of Customs Duties, Classification of Goods, Legislation supporting the Imposition of Custom Duties: Features and Important Provisions, Treatment of Exports and Imports, Custom Valuation Procedures; Structure of Customs Duties, Collection and Assessment of Customs Duty, Valuation of Goods and Exempted Goods.	45P
Pedagogy:	Lectures/Caseanalysis/assignments/group discussions/ quiz /presentations	
Main Texts:	1. Rosen, S. H. & Gayer, T. (2013). <i>Public Finance</i> , 8 th Edition, McGraw Hill Higher Education. 2. Balachandran, V. (2023). <i>Textbook of GST & Customs Law</i> , 2 nd Edition, Sultan Chand & Sons, Delhi	

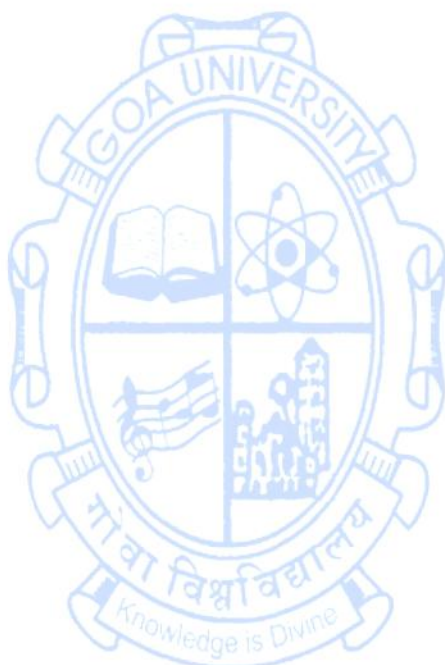
References/Readings:	1. Jain, K. R. (2023). <i>Customs Tariff of India 2023-24</i>, 78th Edition, Taxmann. 2. Singhania, K. V. & Singhania, M. (2023). <i>Students' Guide to Income Tax Including GST</i>, 70th Edition, Taxmann. 3. Sreekantaradhya, B. S. (2000). <i>Structure and Reform of Taxation in India</i>, Deep & Deep, New Delhi. 4. T. N. Manoharan, G.R. Hari. (2024). <i>Students' Handbook on Taxation</i>, Snow White Publications Pvt. Ltd., Mumbai. 5. Government of India. (2017). GST - Concept and status (as on 3rd June, 2017). Central Board of Excise and Customs, Department of Revenue, Ministry of Finance. 6. Goods and Service Tax (GST) (2019)-Concept & Status. Central Board of Indirect Taxes and Customs (CBIC) India.
Course Outcomes:	The students will be able to 1. Interpret provisions of direct and indirect tax legislations 2. Analyze direct and indirect tax structures. 3. Acquire the skills for practical computation of SGST, CGST and IGST. 4. Assess customs duties.



Semester V**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**

Pre-requisites for the Course:	Same as Programme pre-requisites	
Course Objectives:	The objective of the course is to: 1. familiarize basic statistical concepts and 2. learn the tools for analyzing data 3. 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+10P
	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+10P
	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+10P
Pedagogy:	Lectures/ case analysis/assignments/classroom interaction/lab practical	
Main References	Alan Agresti, Christine Franklin, and Bernhard Klingenberg (2017) The Art and Science of Learning from Data, Fourth Edition, Pearson Education.	
Additional References	1. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. 2. G.C. Beri (2005): Business Statistics, 2nd Edition, Tata McGraw Hill Publishing Company Ltd, Delhi 3. Ron C. Mittel Hammer (2013): Mathematical Statistics for Economics	

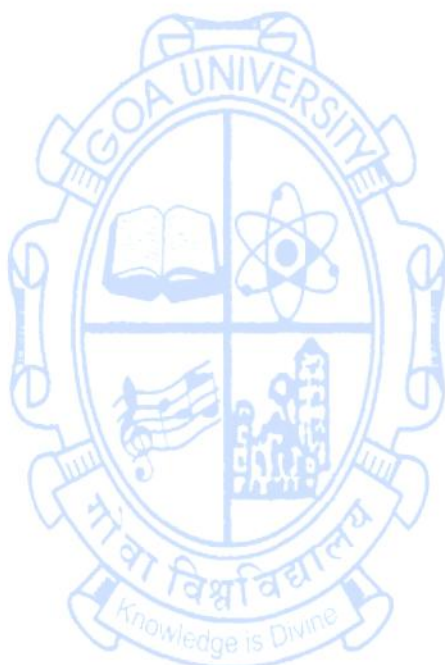
	4. and Business, 2nd Edition, Springer 5. Levine, D., Stephan, D., & Szabat, K., Statistics for Managers Using Microsoft® Excel®, 7th ed., 2013. Upper Saddle River, NJ: Prentice Hall
Course Outcomes:	Students will be able to use and interpret: 1. vital statistics 2. preliminary statistical graphical tools 3. summaries and explore data in spreadsheets 4. measures of association in spreadsheets



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

Prerequisites for the Course	Successfully completed Microeconomics-1 &2 and Macroeconomics-1 &2	
Course Objective	To introduce students to the 1. role of public expenditure, 2. management of revenue, and 3. 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 2. Public Finance by B.P. Tyagi 3. Indian Economy , V.K Puri, S.K Misra, Bharat Garg	

Course Outcome	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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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

Pre-requisite for the course	Same as programme pre-requisites	
Course Objective	Equip students with 1. basic methods of social research 2. ability to design a research study 3. frame a hypothesis 4. basic report writing	
Unit	Content	No of Hours
Content:	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	Main Text: Research Methodology-methods and Techniques- C R Kothari and Gaurav Garg, New Age International (P) Limited, Publishers Additional Readings: 1. Research Methods- Ram Ahuja, Rawat Publications. 2. Research Methodology and statistical Techniques-Santosh Gupta, Deep and Deep Publications New Delhi.	
Course Outcomes	After the successful completion of the course, 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	

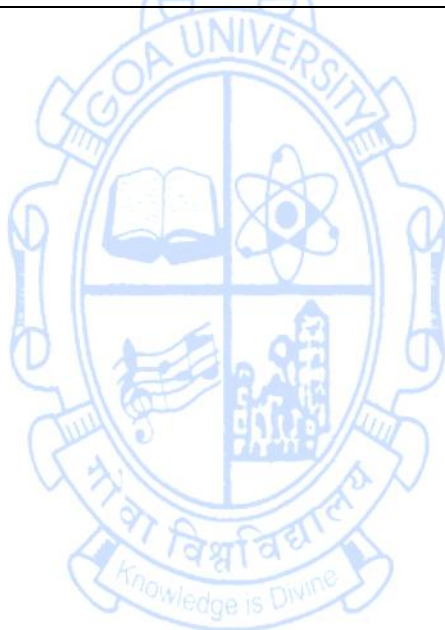
Name of the Programme : B.A. Economics
Course Code : ECO 303
Title of the Course : Development Economics - II
Number of Credits : 02
Effective from AY : 2024-25

Pre-requisites for the Course:	Successfully completed Development Economics - I	
Course Objectives:	1. To understand the significance of technology in economic development. 2. 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:	Main Text Book: Cypher, J. M. & Dietz, J. L. (2020), The Process of Economic Development, Routledge, London.	
	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:	Upon completion of the course, the 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	

Name of the Programme : B.A. Economics
Title of the Course : Decision Making with Spreadsheets II
Course Code : ECO-321
Number of Credits : 4
Effective from AY :2024-25

Pre-requisites for the Course:	Successfully completed Decision Making with Spreadsheets I	
Course Objectives:	The objective of the course is to - Familiarize students with forecasting methods in spreadsheets - Introduce students to decision-making models in spreadsheets	
 Content:		No. of Hours
	Unit 1: Statistics and decision making: Importing Data from a Text File or Document, Importing Data from the Internet, Validating Data, Summarizing Data by Using Histograms, Summarizing Data by Using Descriptive Statistics, Using PivotTables and Slicers to Describe Data, Sparklines, Summarizing Data with Database Statistical Functions, Filtering Data and Removing Duplicates, Consolidating Data, Creating Subtotals, Estimating Straight Line Relationships, Modelling Exponential Growth, The Power Curve, Using Correlations to Summarize Relationships, Introduction to Multiple Regression, Incorporating Qualitative Factors into Multiple Regression, Modelling Nonlinearities and Interactions, Analysis of Variance: One-Way ANOVA, Randomized Blocks and Two-Way ANOVA	15L
	Unit 2: Time series and forecasting: Using Moving Averages to Understand Time Series, Winters's Method, Ratio-to-Moving-Average Forecast Method, Forecasting in the Presence of Special Events, An Introduction to Random Variables, The Binomial, Hypergeometric, and Negative Binomial Random Variables, The Poisson and Exponential Random Variable, The Normal Random Variable, Weibull and Beta Distributions: Modelling Machine Life and Duration of a Project, Making Probability Statements from Forecasts.	10L+10P
	Unit 3: Introduction to Decision Analysis Modelling: Using the Lognormal Random Variable to Model Stock Prices, Introduction to Monte Carlo Simulation, Calculating an Optimal Bid, Simulating Stock Prices and Asset Allocation Modelling, Event Probabilities, Using Resampling to Analyze Data, Pricing Stock Options, Determining Customer Value.	10L+10P
	Unit 4: Advanced models of decision making: The Economic Order Quantity Inventory Model, Inventory Modeling with Uncertain Demand, Queuing Theory: The Mathematics of Waiting in Line, Estimating a Demand Curve, Pricing Products by Using Tie-Ins, Pricing Products by Using Subjectively Determined Demand.	10L+10P

Pedagogy:	Lectures/ case analysis/assignments/classroom interaction/lab practical
References/ Readings:	Main Text: 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press Additional References: 1. Levine, D., Stephan, D., & Szabat, K., Statistics for Managers Using Microsoft® Excel®, 7th ed., 2013. Upper Saddle River, NJ: Prentice Hall. 2. Introduction to Management Science: Quantitative Approaches to Decision Making, by David Anderson, Dennis J. Sweeney, Thomas Arthur Williams.
Course Outcomes:	Students will be able to: 1. Apply statistical tools 2. Execute time series forecasting 3. Execute forecasting methods 4. Undertake advanced models of decision making in spreadsheets.



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

Pre-requisites for the Course:	Completion of 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. 1. 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; Financial Engineering-Exotic Options-Asian Options- Barrier Options-Look back Options-Currency Translated Options -Digital Options	15L
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	10L+ 10P

	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	10L+ 10P
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	10L+ 10P

Pedagogy:	Chalk and talk aided by ICT enabled lectures; Flipped Classroom; PC lab exercises; Assignments and presentations; Group activity; MOOC (or similar) Component
References/ Readings:	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: 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:	1. Recall key concepts and terminology related to option markets and trading strategies. 2. Explain the principles of option valuation models. 3. Use futures and swaps to manage risk in financial markets. 4. Compare and contrast international diversification and hedge fund strategies.

Semester VI**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**

Pre-requisites 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	
References/ Readings:	Main Text: 1. Jonathan M. Harris and Brian Roach (2018), Environmental and Natural Resource Economics: A Contemporary Approach by Routledge. Additional Reference 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.	

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

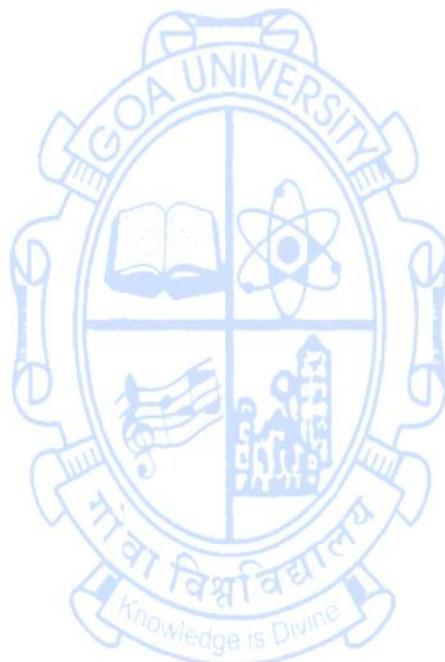
Pre- requisites for the Course:	Successfully completed Microeconomics 1&2 and Microeconomics 1&2 or equivalent	
Course Objective:	The paper aims to introduce the concept of economic growth, theories related to growth, the role of capital and innovation in the growth process and population and sustained 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 Reference	1. Aghion Philippe & Peter Howitt (2009), <i>Economics of Growth</i> , The MIT Press Cambridge, Massachusetts London, England.
Additional References	1. Thirlwall, A.P. (2006). <i>Growth and Development with special reference to Developing Economies</i> , 8 th Edition. Palgrave Macmillan, London. 2. Barro Robert J. and Xavier Sala-i-Martin (2004), <i>Economic Growth</i> , The MIT Press Cambridge, Massachusetts London, England. 3. Weil N. David (2013), <i>Economic Growth</i> , International Edition, Person 4. Jones Charles and Dietrich Vollrath (2013), <i>Introduction to Economic Growth</i> , W. W. Norton & Company, Inc. New York
Course Outcome:	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.

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

Prerequisites of the course	Successfully completed Microeconomics 1&2 and Microeconomics 1&2 or equivalent	
Course Objective	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	
References	Core Readings: 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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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

Pre-requisites 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.	10L + 10P

	Practical: Use sample data to estimate multiple regression models with the OLS method in software and interpret the results of OLS output.	
Pedagogy:	Lectures/ case analysis/assignments/classroom interaction/lab practical	
References/ Readings:	Main Text: 1. Ramanathan, Ramu (2002) Introductory Econometrics with Applications, Pearson Education, Singapore. Additional References: 1. Adkins, L. C. (n.d.). <i>Using gretl for Principles of Econometrics, 5th Edition Version 1.0.</i> 2. Gujarati, D.N. and D.C. Porter (2009). <i>Essentials of Econometrics.</i> 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, <i>Introductory Econometrics: A Modern Approach</i>, © 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 their results.	

Name of the Programme : B.A. Economics
Course Code : ECO 324
Title of the Course : Indian Financial System
Number of Credits : 04
Effective from AY : 2024-25

Pre-Requisites for the course:	Successfully completed Microeconomics 1&2 and Macroeconomics 1&2 or equivalent	
Course Objective:	To introduce students to 1. the basics of Financial System in India 2. the institutions that govern the system 3. how the system has evolved and its current status	
Content:		No. of Hours
	Module 1: Financial System Introduction: Formal Informal Financial Sectors, The Indian Financial System; Components of the Formal Financial System - Financial Institutions, Financial Markets, Financial Instruments, Financial Services, Interaction among Financial System Components; Functions of a Financial System; Key Elements of a well-functioning Financial System; Nature and role of Financial Institutions and Financial Markets The Financial System and the Economy: Types of Economic Units, National Income Accounts - Classification of the Indian Economy, Flow of Funds Accounts (Concept); Trends in savings and Investment; Relationship Between the Financial System and Economic Growth (Key Highlights) Reforms in Financial System: Indian Financial System in the Pre-Reforms Period; Objectives of Financial System Reforms - Financial Efficiency, Stability, and Integration	15
	Module 2: Financial Markets I The Money Market: Introduction – Functions, benefits of an efficient money market, the Indian Money Market, Role of RBI in the Money market, steps to develop the money market in India; Money market instruments – Treasury Bills (Concept, Features, Types, Importance, Concepts – 91 days T-bills, 364 days T-bills, 182 days T-bills, 14 day T-bills), Commercial papers (Concept, Process, Guidelines for Issue, Size), Commercial Bills (Concept, Types, Features, Size), Certificate of Deposit (Concept, Guidelines for Issue, Size), Call/Notice Money Market (Concept, Call rate, MIBOR, Call Rates Volatility, Factor Influencing Call Money Market Rate); Link between the Money market and the monetary policy in India; Tools for managing liquidity in the money market (Concepts) – Reserve Requirement, Interest Rates, Bank Rates, Refinance from the Reserve Bank, Repos; Money market Derivatives (Concept)	15

	The Capital Market: Introduction – Functions, Primary and Secondary Markets; History of the Indian Capital Market (Brief), Capital market scams: Harshad Mehta vs Ketan Parekh Scam, Key reforms in primary and secondary capital markets	
	Module 3: Financial Markets II The Primary Market: Intermediaries to an issue; Free Pricing Regime; Book Building (Brief); Online IPOs, Primary Issue – Public Issue (IPO & FPO Concepts), Rights Issue (Concept and electronic and physical rights issue processes), Indian Depository Receipts (IDRs – Concept, Eligibility for issue, Investors, Minimum issue size and subscription), Private Placement Market (Concept), Preferential issue (Concept), Qualified Institutional Placement (QIP); Mutual Funds; Resource Mobilisation from International markets – Global Depository Receipts (GDRs), American Depository Receipts (ADRs), External Commercial Borrowings (ECBs - Concept), Foreign Currency Convertible Bonds (FCCBs – Concept), Foreign Currency Exchangeable Bonds (FCEBs - Concept) Disinvestment of Public Sector Undertakings: Disinvestment (Concept & Objectives); The PSU Sell-off Methods; Strategic Sales Techniques; Proceeds realised from Disinvestment The Secondary Market: Introduction – Functions, Development of stock market in India; Post reforms market scenario; Listing of Securities: Central Listing Authority, SEBI Regulations, 2003; Risk Management – Trading rules and regulations, Circuit breakers; Internet trading; Stock market Index – Methodologies for calculating the Index, Global Stock Market Indices, Major Indices in India (Sensex & NIFTY); Stock Exchanges – BSE & NSE (Brief Concept and Indices); Measures to boost the liquidity in the secondary market – Investment by foreign institutional investors in the Indian Stock Market, Depositories, Buy back of shares	15
	Module 4: Financial Markets III The Derivative Market: Introduction – Economic Benefits of Derivatives, Derivatives defined under the Securities Contracts (Regulation) Act, 1956, Types of Financial Derivatives, Features, Traders in Derivative Market; Forward Contracts, Future Contracts, Need for Future Market, Role of Clearing House, Pricing Futures (Problems); Futures trading Strategies – Hedging, Speculation, and Arbitrage; Options – Concept, Types, Benefits, Payoff profile of call and put options; Option Trading strategies – Option spread, Volatility trading; Derivatives market in India, Derivatives Trading in India	15

	The Debt Market: Link between the money Market and the Debt Market, Characteristics, Participants, Types of Instruments Traded; The private corporate debt market (Brief), The Public Sector Undertaking Bond market (Brief), Government Securities Market (Introduction & Importance; Issuers, investors, and types of government securities) New Financial Instruments (Explain discussion)	
Pedagogy:	Lectures/Case Analysis/Assignments/Classroom Discussions	
Main Text:	1. Pathak, B (2011): The Indian Financial System, Pearson Education	
Additional References:	1. Sarkhel, J (2017): Indian Financial System and Financial Market Operations, McGraw Hill Education 2. Khan, M (2018): Indian Financial System, McGraw Hill Education 3. Bodie, Z (2024): Investments, McGraw Hill Education	
Course Outcome:	The students will be able to: 1. Explain the different aspects of the Indian financial system 2. Evaluate components and institutions of the capital market 3. Distinguish between and highlight the importance of various financial market tools 4. Explain the role of derivatives in the financial system	

