



गोंय विद्यापीठ

ताळगांव पठार

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(Accredited by NAAC)

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GU/Acad –PG/BoS -NEP/2023/102/27

Date: 18.06.2023

CIRCULAR

The University has decided to implement the UGC Curriculum and Credit Framework for the Undergraduate Programme (CCFUP) of **Bachelor of Arts in Economics/Bachelor of Arts in Economics (Honours)** under the National Education Policy (NEP) 2020 from the Academic Year 2023-2024 onwards.

The approved Syllabus of Semesters I and II of the **Bachelor of Arts in Economics/Bachelor of Arts in Economics (Honours)** Programme is attached.

Principals of Affiliated Colleges offering the **Bachelor of Arts in Economics/Bachelor of Arts in Economics (Honours)** Programme are requested to take note of the above and bring the contents of this Circular to the notice of all concerned.

(Ashwin Lawande)
Assistant Registrar – Academic-PG

To,

1. The Principals of Affiliated Colleges offering the Bachelor of Arts in Economics /Bachelor of Arts in Economics (Honours) Programme.

Copy to:

1. The Director, Directorate of Higher Education, Govt. of Goa
2. The Dean, Goa Business School, Goa University.
3. The Vice-Deans, Goa Business School, Goa University.
4. The Chairperson, BoS in Economics.
5. The Controller of Examinations, Goa University.
6. The Assistant Registrar, UG Examinations, Goa University.
7. Directorate of Internal Quality Assurance, Goa University for uploading the Syllabus on the University website.

Goa University
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	Major- 1 ECO-100 Introduction to Economics (4)	Minor -1 ECO- 111 Political Economy I (4)	MC-1 ECO-131 Sustainable Development (3)		SEC-1 ECO-141 Data Analysis - I (1T + 2P) OR ECO-142 Introduction to Entrepreneurship 03 (1L-0T-2P)					
II		Minor-2 ECO- 112 Political Economy II (4)	MC-2 ECO-132 Globalization (3)		SEC-2 ECO-143 Data Analysis - II 03 (1L-0T-2P) OR ECO-144 Fundamentals of Entrepreneurship 03 (1L-0T-2P)					EXT-1 ECO-161 (4) *
III	ECO- 200 Microeconomics - I (4) ECO -201 Macroeconomics – I (4)	ECO- 211 Financial Economics (4)	ECO-231 Understanding Indian Economic Policy (3)		ECO- 241 Data Analysis - III (3) (1L-0T-2P) OR ECO -242 Entrepreneurship Development – III (3)(1L-0T-2P)					

IV	<p>ECO -202 Microeconomics -II (4)</p> <p>ECO- 203 Macroeconomics – II (4)</p> <p>ECO -204-Indian Economy (4)</p> <p>ECO- 205 Development Economics - I Part1 (2)</p>	<p>ECO -221 Decision making with spreadhseets (4)</p>								<p>EXT-2 ECO-162 (4)*</p>
V	<p>ECO- 300 Basic Statistics (4)</p> <p>ECO- 301 Public Finance (4)</p> <p>ECO- 302 Research Methodology (4)</p> <p>ECO- 303 Development</p>	<p>ECO -321 Basic Econometrics for Social Sciences (4)</p>								

	Economics (2)									
VI	ECO- 304 Environmental Economics (4) ECO-305 Growth Economics (4) ECO-306 International Economics (4) ECO-307 Project (4)	Minor VET-6 ECO -322 Game Theory (4)								
VII	ECO -400 Advanced Microeconomics (4) ECO- 401 Advanced Macroeconomics (4) ECO- 402	ECO- 411 Contemporary Economic Development (4)								

	Public Economics and Public Policy (4) ECO- 403 Statistics For Economic Analysis (4)									
VIII	ECO -404 Mathematics For Optimisation (4) ECO- 405 Economic Growth and Development (4) ECO -406 International Trade and Finance (4) ECO -407 Introduction to Econometrics (4)	ECO- 412 Agricultural Economics (4)								

* Exit courses List along with the syllabus will be provided separately

Name of the Programme: BA Economics
Course Code: ECO-100
Title of the Course: Introduction to Economics
Number of Credits: 4
Effective from AY: 2023-24

Pre-requisites for the Course:	Nil	
Course Objectives:	Introduce the student to the fundamental ideas of economics	
Content:	<p>Unit 1: Defining scarcity and presenting economic systems as scarcity of various resources. Building blocks of modern economy – classification of nature and functions of the agents, resources and goods and services.</p> <p>Unit 2: Basic concepts, such as: costs, benefits, consumption, production, exchange, capital accumulation, distribution, value and price, surplus or margins, flow and stock variables, short and long run, efficiency, equilibrium, growth, development and welfare.</p> <p>Unit 3: Microeconomic analysis – consumer equilibrium, producer equilibrium, market equilibrium, general equilibrium and possible disequilibrium situations.</p> <p>Unit 4: Macroeconomic analysis – circular flow and national income, issues related to growth, unemployment and inflation.</p>	<p>No of hours 15</p> <p>15</p> <p>15</p> <p>15</p>
Pedagogy:	Lectures/ case analysis/assignments/class room interaction	
References/ Readings:	<ol style="list-style-type: none"> 1. Samuelson, P A and Nordhus, W D (1998): Economics, Tata McGraw – Hill Publishing Company Limited. 2. Mankiv, N.G. (2002): Principles of Economics, Thomson, South Western-7th edition. 3. Edward Shapero (1982), Macro economic Analysis, Fifth edition, Harcourt Brace Jovanovich. 4. Paul Krugman and Robin Wells, Microeconomics, Palgrave Macmillan; New edition (8 June 2015). 	
Course Outcomes:	<p>After the successful completion of the course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the fundamental economic problems 2. Recognize the abstract and concrete economic structures 3. Analyze the economic behavior of agents in consumption, production and distribution 4. Compare different kinds of economic systems 5. Discuss basic approaches of economic theory to economic behavior: micro vs macro. 	

Name of the Programme: BA Economics

Course Code: ECO-111

Title of the Course: Political Economy I

Number of Credits: 4 Total hours: 60

Effective from AY: 2023-24

Pre-requisites for the Course:	Nil	
Course Objectives:	This introduces the student to: 1. changes in the organisation of production, labour market institutions and corporate structure 2. the consequences of globalization, especially of financial flows, for the role of the state, economic performance, gender issues, environment, human welfare and development.	
Content:	Module 1 Introduction and Historical Overview Perspective on political economy with a historical overview: capitalist development in the pre-second world war period, the 'golden age' and later. Module.2 Changing Dynamics of Capitalist Production, Organisational Form and Labour Process: Fordist and post-fordist production; changing dynamics of organisation of production, markets and labour process; the changing nature of job security and labour rights. Module 3 The State in the Era of Globalisation: Welfare, Development and Autonomy Globalisation and the limits of the welfare state, development and state autonomy. The changing role of finance in capital accumulation and corporate structure; finance and globalisation - financialisation, financial liberalisation and financial crisis. Module 4. The Social Dimension Globalisation and uneven development – growth, inequality and exclusion. Gender in work, accumulation and globalisation; issues in environment and sustainability; alternatives ahead.	No of hours 15 15 15 15
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/	
References/ Readings:	1. Michel Beaud, A History of Capitalism, 1500-2000, trans. by Tom Dickman and Anny Lefebvre, New York: Monthly Review Press, 2001. 2. Ash Amin (ed.), Post-Fordism: A Reader, Blackwell, 1994. 3. Fran Tonkiss, Contemporary Economic Sociology: Globalisation, Production, Inequality, Chapter 4 (Fordism and After), Routledge India 2008 reprint, 2006. 30 4. S. Hymer, "The Multinational Corporation and the Law of Uneven Development", in H. Radice (ed.) International Firms and Modern Imperialism, Penguin Books, 1975. 5. G. Gereffi, J. Humphrey and T. Sturgeon, 2005, —The Governance of Global Value Chains, Review of International Political Economy, Volume 12: 78–104.	

	<p>6. Narasimha Reddy, —Economic Globalisation, Past and Present – The Challenges to Labour in Jomo K.S. & Khoo Khay Jin (ed.) Globalization and Its Discontents, Revisited, Sepsis -Tulika Books, 2003.</p> <p>7. David Harvey, A Brief History of Neoliberalism, OUP, 2005.</p> <p>8. Andrew Glyn, —Challenges to Capitalism, in Capitalism Unleashed: Finance, Globalization and Welfare, Oxford: Oxford University Press, (Ch. One, pp. 1-24), 2006.</p> <p>9. G Dumenil and D Levy, The Crisis of Neoliberalism, Harvard University Press, 2011.</p> <p>10. K.S. Jomo (ed.), The Long Twentieth Century: The Great Divergence: Hegemony, Uneven Development and Global Inequality, OUP, 2006.</p> <p>11. Gary Dymksy, 2005, —Financial Globalization, Social Exclusion and Financial Crisis, International Review of Applied Economics, Vol. 19: 439–457.</p> <p>12. E. Stockhammer, —Financialization and the Global Economy, in G. Epstein and M.H. Wolfson (ed.) The Political Economy of Financial Crises, Oxford University Press, 2010. [Also in Working Paper Series, No. 240, Political Economy Research Institute, University of Massachusetts Amherst]</p> <p>13. J.P. Smith and M.P. Ward, 1989, —Women in the Labour Market and in the Family, Journal of Economic Perspectives, Volume 3: 9-23.</p> <p>14. Marilyn Power, 2004, —Social Provisioning as a Starting Point for Feminist Economics, Feminist Economics, Volume 10: 3-19.</p> <p>15. John Bellamy Foster, Ecology against Capitalism, Monthly Review Press, 2002</p>
<p>Course Outcomes:</p>	<p>The student will be able to:</p> <ol style="list-style-type: none"> 1. Understand changes in the organisation of production, 2. Impact of globalisation on labour market institutions 3. Explain changes in corporate structure 4. Understand the consequences of globalization, especially of financial flows, for the role of the state, economic performance, gender issues, environment, human welfare and development.

Name of the Programme: BA Economics

Course Code: ECO-112

Title of the Course: Political Economy II

Number of Credits: 4

Effective from AY: 2023-24

Pre-requisites for the Course:	Nil	
Course Objectives:	This course introduces the student to: 1. Different perspectives from alternative schools of thought 2. development of the structure and institutions of capitalist economies and their 3. relationship to social and political forces as well as more recent commentaries.	
Content:	Module 1 Analysing Social Change in Historical Perspective The method of historical materialism; the transition from feudalism to capitalism; capitalism as a historical process – alternative perspectives. Module 2 Capitalism as an Evolving Economic System Basic features; accumulation and crisis; the modern corporation; monopoly capitalism— alternative perspectives. Module 3 The state and the economy – contestation and mutual interdependence; the state as an arena of conflict; imperialism – the basic foundations. Module 4. Post-Industrial Society, growth in era of informalisation, the GIG economy, the Platform economy, the knowledge economy	No of hours 15 15 15 15
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ Readings:	Readings: 1. J. Gurley, "The Materialist Conception of History", Ch.2.1 in R. Edwards, M.Reich and T. Weisskopf (ed.), The Capitalist System, 2nd edition, 1978. 2. O. Lange, Political Economy, vol. 1, 1963, Chapters 1 and 2. 3. E.K. Hunt, History of Economic Thought, M.E. Sharpe, Indian edn, Shilpi Publications, 2004. 4. Irfan Habib, 1995, "Capitalism in History", Social Scientist, Vol. 23: 15-31. 5. R.L. Heilbroner, "Capitalism", in The New Palgrave Dictionary of Modern Economics, Macmillan, 1987. Also reprinted as Chapter 2 in Behind the Veil of Economics by R.L. Heilbroner, W.W. Norton, 1988. 6. P. Sweezy, The Theory of Capitalist Development, Monthly Review Press, 1942, 36 chapters 2, 4, 5, 6, 8 and 10. 7. Anwar Shaikh, Entries on "Economic Crises" and "Falling Rate of Profit" in T. Bottomore et al (eds.), The Dictionary of Marxist Thought, OUP, Indian edition, Maya Blackwell, 2000. 8. Vamsi Vakulabharanam, 2009, —The Recent Crisis in Global Capitalism: Towards a Marxian Understanding, Economic and Political Weekly, March 28, Vol. 44: 144-150.	

	<p>9. J. Schumpeter, <i>Capitalism, Socialism and Democracy</i>, George Allen and Unwin 1976, Chapters 6, 7 and 8.</p> <p>10. P. Baran (1957), <i>The Political Economy of Growth</i>, Chapter 3, Pelican edition, 1973.</p> <p>11. R. Heilbroner, —The Role of the Statell, Ch.4 in <i>The Nature and Logic of Capitalism</i>, 1985.</p> <p>12. M. Kalecki, —Political Aspects of Full Employmentll, in E.K. Hunt and J.G.Schwarz (eds.), <i>A Critique of Economic Theory</i>, Penguin Books, 1972.</p> <p>13. Amit Bhaduri, —Nationalism and Economic Policy in the Era of Globalizationll, Ch. 2 in Deepak Nayyar (ed), <i>Governing Globalization: Issues and Institutions</i>, OUP, 2002 [also WIDER Working Paper no.188, WIDER website (2000)].</p> <p>14. Prabhat Patnaik, —“Lenin’s Theory of Imperialism Today”, in K.S. Jomo (ed.) <i>The Long Twentieth Century: The Great Divergence: Hegemony, Uneven Development and Global Inequality</i>, OUP.</p> <p>15. James O'Connor, "The Meaning of Economic Imperialism," in Robert Rhodes, ed., <i>Imperialism and Underdevelopment</i>, New York: Monthly Review Press, 1970, pages 101 to 111.</p>
<p>Course Outcomes:</p>	<p>The student will be able to</p> <ol style="list-style-type: none"> 1. Differentiate between different perspectives from alternative schools of thought 2. Understand the development of the structure and institutions of capitalist economies 3. Explain the relationship between to social and political forces to stages of development

Name of the Programme: BA Economics
Course Code: ECO-131
Title of the Course: Sustainable Development
Number of Credits: 3
Effective from AY: 2022-23

Pre-requisites for the Course:	Nil	
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:	<p>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.</p> <p>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.</p> <p>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.</p>	<p>No of hours</p> <p>15</p> <p>15</p> <p>15</p>
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ Readings:	<p>Core Reading</p> <p>C1. Jonathan M. Harris and Brian Roach (2018) Environmental and Natural Resource Economics A Contemporary Approach, Fourth Edition, Taylor and Francis, New York</p> <p>C2. 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</p>	

	<p>C3. Lynne Lewis, Thomas H. Tietenberg (2020) Environmental Economics and Policy, Routledge, London</p> <p>Additional References</p> <p>A1. Charles D. Kolstad (2012) Intermediate Environmental Economics, Oxford University Press, New Delhi</p> <p>A2. Stephen Smith (2011) Environmental Economics: A Very Short Introduction, Oxford University Press, Oxford</p>
<p>Course Outcomes:</p>	<p>Student will be able to:</p> <ol style="list-style-type: none"> 1. understand global sustainability challenges, 2. Appreciate mechanisms to promote equity and social justice, 3. Explain role of enhance education and awareness in achieving long-term well being for present and future generations sustainably.

Name of the Programme: Bachelor of Arts

Course Code: ECO-132

Title of the Course: Globalisation

Number of Credits: 03

Effective from AY: 2023-24

Pre-requisites for the Course	Nil	
Course Objectives:	The course familiarizes students with dynamics of the globalisation. It also focuses on issues pertaining to globalization, global economic transitions and various other aspects related to it.	
Content		No of Hours: 45
	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	<ul style="list-style-type: none">● Chalk and talk aided by ICT enabled lectures● Assignments and presentations● Group activity● MOOC (or similar) Component	

<p>References/ Readings:</p>	<ul style="list-style-type: none"> ● P. Subba Rao (2017) International Business, Himalaya Publishing House, Mumbai, Fourth Revised Edition. ● Francis Cherunilam (2010) International Business: Text and Cases, Fifth Edition PHI Learning Private Limited, New Delhi. ● Saleem Shaikh, (2020) Pearson India Education services private limited, Noida, Fourth Edition. ● Ritzer, George. 2010. Globalization: A Basic Text. Wiley-Blackwell. ● Krugman, Paul R., Maurice Obstfeld and Marc J. Melitz. 2012. International Economics: Theory and Policy. Pearson. ● Francis Cherunilam, "Global Economy and Business Environment, Tata McGraw Hill Education. Private Ltd., New Delhi, Fifth Edition. ● John Naisbitt, The Global Paradox, Nicholas Brealey Publishing, London, 1994, p. 186. Kenchi Ohmae, The Borderless World, Fontana, London, 1991. ● John D. Sullivan, "Preparing in the Global Economy", Economic Reform Today, November 1, 2000. 	
<p>Course Outcomes:</p>	<p>Upon completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> ● Understand basic concepts, evolution and dimensions of globalisation. ● Assess the impact of globalisation and the wide range of reactions they have caused around the world. ● Evaluate the pros and cons of globalisation and suggest measures. ● Summarize the globalisation of markets, production, Investment and Technology. 	

Name of the Programme: BA Economics

Course Code: ECO-141

Title of the Course: Data Analysis I

Number of Credits: 03 (1L-0T-2P)

Effective from AY: 2023-24

Prerequisites for the Course:	Nil	
Course Objectives:	The objective of the course is to <ul style="list-style-type: none">Familiarize the students with Basic statistical concepts and their application using open-source software (spreadsheets and GRET).	
Content:	<p>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</p> <p>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.</p> <p>Module 3: Analysis using Spreadsheets and Gretl: (Practical Component)</p> <p>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.</p>	5L+20P 5L+20P 5L+20P
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ Readings:	<ul style="list-style-type: none">Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, MumbaiAdkins, L. C. (n.d.). <i>Using gretl for Principles of Econometrics, 5th Edition Version 1.0.</i>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.G.C. Beri (2005): Business Statistics, 2nd Edition, Tata McGraw Hill Publishing Company Ltd, DelhiRon C. Mittel hammer (2013): Mathematical Statistics for Economics and Business, 2nd Edition, Springer	

Course Outcomes:	<ol style="list-style-type: none">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 like Gretl.
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Name of the Programme: B. A. Economics

Course Code: ECO-142

Title of the Course: Introduction to Entrepreneurship

Number of Credits: 03 (1L-0T-2P)

Effective from AY: 2023-24

Pre-requisites for the Course:	Nil	
Course Objectives:	The objectives of this course are <ul style="list-style-type: none">● to inspire students and help them imbibe an entrepreneurial mind-set.● introduce key traits and the DNA of an entrepreneur,● 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:	<p>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.</p> <p>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.</p> <p>Module 3: Conduct Business survey through collection of primary and secondary data and preparation of a business plan and presentation. Visit to the Incubation centers, Discussion and preparing a report.</p>	<p>No of hours</p> <p>5L+20P</p> <p>5L+20P</p> <p>5L+20P</p>
Pedagogy:	<ul style="list-style-type: none">● Chalk and talk aided by ICT enabled lectures● Assignments and presentations● Group activity (Videos, In-class Activities, Outbound Activities)	
References/ Readings:	<ul style="list-style-type: none">● S. S. Khanka, Entrepreneurial Development, S. chand & company pvt . Ltd.● Cynthia L. Greene, Entrepreneurship: Ideas in Action, Thomson-South-Western.● Mary Coulter, Entrepreneurship in Action, 2nd edition, prentice–Hall of India, Indian reprint.● Thomas W. Zimmerer, and Norman M. Scarborough, Essentials of Entrepreneurship and small business management, Prentice –Hall of India, 2006.● Vasant Desai, Dynamics of Entrepreneurship Development, Himalaya Publishing House.● Mirijana Radovic Markovic and Aidin Salamzadeh, The Importance of Communication in Business Management, PDF, Confrence proceeding: The 7th International Conference on Employment, Education and Entrepreneurship, Serbia.	

Course Outcomes:	Upon completion of this course, the students will be able to: <ol style="list-style-type: none">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. understand the need for Social responsibility of Business and4. appreciate the importance of Business Ethics.
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Name of the Programme: BA 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: <ul style="list-style-type: none">● To introduce students to inferential statistics.● To familiarize students with tests used for hypothesis testing.● To enable students, evaluate relationships between variables.● To familiarize students with causal inference using simple regression.● To enable students to interpret results from inferential statistics.	
Content:	<p>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.</p> <p>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.</p> <p>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.</p>	<p>5L+20P</p> <p>5L+20P</p> <p>5L+20P</p>
Pedagogy:	Lectures/ case analysis/assignments/class room interaction/lab practical	
References/ Readings:	<ul style="list-style-type: none">● Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai● Ramanathan, Ramu (2002) Introductory Econometrics with Applications, Pearson Education, Singapore.● Gujarati, D.N. and D.C. Porter (2009). Essentials of Econometrics. McGraw Hill, 4th Ed., International Edition.	

	<ul style="list-style-type: none"> ● Adkins, L. C. (n.d.). <i>Using gretl for Principles of Econometrics, 5th Edition Version 1.0.</i> ● Wooldridge, Jeffrey M (2002), <i>Econometric Analysis of cross section and Panel Data</i>, MIT Press, 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, <i>Statistics for Managers: Using Microsoft Excel, Fifth Edition</i>, Prentice Hall, Pearson Education, Inc. ● Gerald Keller (2017): <i>Statistics for Management and Economics, 11th Edition</i>, Cengage Learning, USA.
<p>Course Outcomes:</p>	<p>Students will be able to:</p> <ol style="list-style-type: none"> 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: 03 (1L-0T-2P)

Effective from AY: 2023-24

Pre-requisites for the Course:	Nil	
Course Objectives:	To expose students to entrepreneurship and to develop skills to be an effective businessmen and to identify areas of utmost importance in the starting and managing of the business.	
Content:	<p>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.</p> <p>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.</p> <p>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.</p>	<p>No of hours 5L+20P</p> <p>5L+20P</p> <p>5L+20P</p>
Pedagogy:	<ul style="list-style-type: none">● Chalk and talk aided by ICT enabled lectures● Assignments and presentations● Group activity (Videos, In-class Activities, Outbound Activities)	
References/ Readings:	<p>S. S. Khanka, Entrepreneurial Development, S. chand & company pvt . Ltd.</p> <p>Cynthia L. Greene, Entrepreneurship: Ideas in Action, Thomson- South-Western.</p> <p>Mary Coulter, Entrepreneurship in Action, 2nd edition, prentice–Hall of India, Indian reprint.</p> <p>Thomas W. Zimmerer, and Norman M. Scarborough, Essentials of Entrepreneurship and small business management, Prentice –Hall of India, 2006.</p> <p>Vasant Desai, Dynamics of Entrepreneurship Development, Himalaya Publishing House.</p>	
Course Outcomes:	<p>Upon completion of this course, the students will:</p> <ol style="list-style-type: none">1. understand the Human Resource management issues and Leadership styles.2. Know key skills such as Advertising, Marketing by different channels and personal selling.3. Understand the importance of team work and motivation.	