

6th Semester





Gulbarga University, Kalaburagi
Department of Studies and Research in Economics

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|----------------------------|--------------------------------|----------------------------|-----------------------|
| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | International Economics | | |
| Course Code: | ECO C13 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the international trade theories and their application in international trade
- CO2. Explain the concept of terms of trade and demonstrate the effect of trade barriers; and display the ability to analyse the stages of economic integration
- CO3. Understand the concept of BoP and assess the BoP position and examine the changes in forex rate
- CO4. Analyse the role of International trade and financial institutions
- CO5. Demonstrate good inter-personal and communication skills through class participation and contributing to critical discussion on trade issues

| MODULES | DESCRIPTION | 60 Hours |
|-------------------|---|-----------------|
| Module I | International Trade Theories | 15 |
| | Meaning and Importance of International trade; Differences between Internal and International Trade; Trade Theories: Mercantilist view; Absolute cost and comparative cost advantage theories; Haberler's Opportunity cost theory; Hecksher-Ohlin theory; Leontief's paradox | |
| Practicum | Assignment on Ricardo's Comparative cost advantage and Leontief's paradox | |
| Module II | Terms of Trade and Commercial Policy | 18 |
| | Terms of trade- Concept and Types, Factors determining Terms of Trade; Commercial Policy: Free trade v/s Protection; Tariffs: Types and effects; Quotas; Anti-dumping; Economic Integration: Meaning and stages. | |
| Practicum | Debate: Free trade v/s Protection Mini project: Trace the evolution of India towards Economic Integration | |
| Module III | Balance of Payment and Capital Flow | 12 |
| | Balance of Payment: Concept, Components; Disequilibrium in Balance of Payment: Causes and Measures to correct disequilibrium; Foreign Exchange rate: Meaning and types; determination of Foreign exchange rate: Demand for and Supply of Forex; Purchasing Power Parity (PPP) theory; Capital Flow: Meaning and concept of Foreign Investment; Forms of FDI; Advantages and disadvantages of FDI. | |

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| | Assignment on Forms of FDI | |
| Module IV | International Finance and Trade Institutions | 15 |
| | Bretton Woods Institutions: IMF and IBRD -IDA and IFC: Organization, Objectives, Functions and their role in developing countries; Evolution of WTO: GATT – principles and objectives; WTO: Organization, Objectives, Functions, Agreements and current issues; WTO and developing countries; | |
| Practicum: | Group Discussion: Effectiveness of IMF and IBRD in developing countries Seminar: Agreements of WTO or current issues of WTO | |
| References | | |
| 1 | Sodersten. B. (1993): International Economics, MacMillan, 3 Edition, London, | |
| 2 | Salvatore, D. (2016): International Economics, 12 Edition, Wiley Publication | |
| 3 | Vaish, M. C. and Sudama Singh (1980): International Economics, 3 Edition, Oxford and IBH Publication, New Delhi. | |
| 4 | Carbaugh, R. J. (1999): International Economics, International Thompson Publishing, New York | |
| 5 | Dana, M. S. (2000): International Economics: Study Guide and work Book, 5. Edition, Routledge Publishers, London. | |
| 6 | Kenen, P. B. (1994). The International Economy, Cambridge University Press, London. | |
| 7 | Krugman, P.R. and M. Obstfeld (1994): International Economics: Theory and Policy Addison-Wesley Publications. | |
| 8 | Jackson, JD. (1998) The World Trading System, Cambridge University Press, Mass.Cherunilam, International Economics, TMH, New Delhi. | |
| 9 | D M Mithani, International Economics, Himalaya , Mumbai. | |
| 10 | Jhingan M.L.(2016): International Economics, Vrinda Publications Pvt Ltd-Delhi | |
| 11 | Dwivedi D.N.(2013): International Economics Theory & Policy, Vikas Publishing House Pv.t Ltd. | |
| 12 | K.C. Rana & K.N. Verma (2017): International Economics; Vishal Publishing Co. | |
| 13 | Krishnamurthy H.R (2013) : Antararashreeya Arthashastra ; (Kannada version), Sapna, Bengaluru | |





Gulbarga University, Kalaburagi
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|----------------------------|------------------------------|----------------------------|-----------------------|
| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | Indian Public Finance | | |
| Course Code: | ECO C14 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian Public Finance
- CO2. Enable the students to know the Source and nature of public revenue and expenditure
- CO3. Understand the Budget and different concept of deficits
- CO4. Know the Public debt and its management
- CO5. Understand the fiscal and monetary policy and their tools and importance
- CO7. To enable the students to know the Indian federal financing system and Financial Commissions

| MODULES | DESCRIPTION | 60 Hours |
|-------------------|---|-----------|
| Module I | Public Revenue | 18 |
| | Direct Tax Revenue - Sources of Revenue-Tax and Non-Tax Revenue; Trends and Patterns of Tax Revenue in India; Direct and Indirect Taxes in India; Personal Income Tax Rates and Slabs; Corporate Tax- Tax Rate and Slabs; Indirect Tax Revenue - Indirect Taxes – Earlier Taxes-VAT and MODVAT; Goods and Services Tax (GST)- Objectives and Classification of GST, Tax Rates of GST; Trends and Patterns of GST; Impact of GST on Indian Economy; Tax Reform Commissions. | |
| Practicum | Collection and analysis of data on Direct tax Collection and analysis of GST from businesses | |
| Module II | Public Expenditure | 15 |
| | Revenue Expenditure - Classification of Public Expenditure in India; Revenue Account Expenditure- Trends and Patterns; Capital Account Expenditure-Trends and Patterns; Fiscal Responsibility and Budget Management (FRBM) Act; Impact of Public Expenditure on Indian Economy; Expenditure Reforms Commission (ERC) in India; Union Budget and Its Analysis - Meaning and Classification of Budgets; Zero-Based Budget; Composition of Union Budget; Union Budget Analysis (current one); Different Concept of Deficits- Revenue, Fiscal, Primary Deficits | |
| Practicum | Analysis of Union Budget (Current one) Group Discussion on Budget Deficits | |
| Module III | Public Debt and Its Management | 14 |

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| | Public Borrowings and Debt - Meaning and Nature of Public Debt; Sources of Public Borrowings; Classification of Public Debt; Trends and Patterns of Central Government Debt; Main Characteristics of Indian Public Debt; Crowding out of Private Investment; Causes of Public Debt in India; Burden of Public Debt and Management in India - Meaning of Burden of Public Debt; Importance of Public Management; Principles of Public Debt Management; Repayment of Public Debt in India; Impact of Public Debt on Indian Economy; Finance Commissions in India | |
| Practicum | Assignment to write on Indian Public Debt and sources of repayment Group Discussion on Burden of Public Debt | |
| Module IV | Fiscal and Monetary Policies and Federal Finance in India | 13 |
| | Fiscal and Monetary Policy India - Meaning and Objectives of Fiscal Policy; Importance of Fiscal Policy; Tools of Fiscal Policy; Meaning and Objectives of Monetary Policy; Importance of Monetary Policy; Tools of Monetary Policy; Indian Federal Finance - Meaning and Importance- Stages of Growth; Allocation of Resources- Division of Functions and Resources; Principles of Federal Finance; Shortcomings of Federal Financing; Finance Commission and Their Recommendations. | |
| Practicum | Group Discussion about the Role of Fiscal and Monetary Policies in controlling inflation Assignment to write the State List, Union List and Concurrent list | |

| References | |
|-------------------|---|
| 1 | Bhatia H L (2021): Public Finance, S. Chand and Co., New Delhi. |
| 2 | Lekhi R.K (2020): <i>Public Finance</i> , Kalyani Publishers, New Delhi. |
| 3 | Musgrave R.A and Musgrave P.A (2017): <i>Public Finance in Theory and Practice</i> , Mcgraw- Hill Kogakusha, Tokyo. |
| 4 | Om Prakash (2021): <i>Public Economics: Theory a practice</i> , Vishal Publishing Co. Ludhiana. |
| 5 | S.K. Singh (2019): <i>Public Economics: Theory and Practice</i> S. Chand and Co., New Delhi. |
| 6 | Tyagi, B.P (2018): <i>Public Finance</i> , Jai Prakash Nath and Company, Meerut, India. |





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|----------------------------|---|----------------------------|-----------------------|
| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | Economic Thoughts of Dr.B.R Ambedkar | | |
| Course Code: | ECO C15 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. derive inspiration from the life and works of B R Ambedkar
- CO2. Appreciate the socio-economic scenario during Ambedkar" period and compare it with present day
- CO3. Comprehend the contributions of Ambedkar on various economic aspects
- CO4. Assess the economic views of Ambedkar in the light of present-day socio-economic problems
- CO5. develop the traits of critical thinking and critiquing

| MODULES | DESCRIPTION | 60 Hours |
|------------------|--|---------------|
| Module 1 | Ambedkar's views on Economy, Society and Equity | 15 Hrs |
| | Socio- Economic-Political Context of India during Ambedkar"s period; Brief outline of Ambedkar"s life and career; Ambedkar"s views on: a) economy and society; b) role of state c) Socialism and State Socialism; d) Women Empowerment , e) Objectives of economy: growth & equity; Socio-economic inequality: Economics of Caste, discrimination and deprivation; reforms suggested there in by Dr Ambedkar: Constitutional Provisions; Hindu code Bill | |
| Practicum | Assignment: Socio-economic inequality and status of affirmative actions in India | |
| Module 2 | Thoughts of Ambedkar on Agriculture | 15Hrs |
| | Ambedkar"s views on: Agrarian Economy; Consolidation of land holdings and land revenue; Comparison with Ricardian view; Collective farming; views on land-ownership and land lessness; Nationalization of land and ceiling on land holdings; Surplus labour utilisation in agriculture and capital formation; | |
| Practicum | Mini Project: Using the Agriculture census data (https://agcensus.dacnet.nic.in/), chart the average size of operational holdings (by group) for different social classes in your tehsils and district (for 2001-2 and 2015-16); compare with the corresponding figures of state and nation. | |
| Module 3 | Ambedkar on Industrialisation and Planning | 15 Hrs |
| | Ideas on Industrialisation; views on types of industries Labour: views on labour exploitation and labour reforms; Social security Planning: Measures to develop Irrigation and Power sector: River linking; | |

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| Practicum | Debate 1): Small & cottage industries of rural areas v/s large scale industries in urban areas | |
| | Debate 2) Industrialize or perish v/s Industrialize and perish | |
| Module 4 | Ambedkar's contribution to Fiscal and Monetary Economics | 15 Hrs |
| | Fiscal Economics: study of sources of revenue; canons of expenditure Monetary Economics: Price stability and exchange rate stability; Currency reform | |
| Practicum | Seminar: Ambedkar's views on „The Problem of Rupee“ | |

| References (In order of importance of usage) | |
|---|---|
| 1 | Heggade O D (1998) - Economic Thoughts of B R Ambedkar |
| 2 | Heggade O D - ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲಾ ಅಧಿಕಾರಿಗಳ ಕಛೇರಿ, Arjun Pub. House, Mysuru |
| 3 | Speeches and writing of Dr. B R Ambedkar, W R Mujawar (4 Volumes) |
| 4 | ಬಿ.ಆರ್.ಅಂಬೇಡ್ಕರ್‌ನ ಆರ್ಥಿಕ ಚಿಂತನೆ ಮತ್ತು ನೀತಿಗಳು - Vol 1, Vol.2 Part 1& 2, Vol 3 Vol 6 Part 1& 2, Vol 10 Part 1, 2, & 3, Vol 12 part 2, Pub by Govt of Karnataka |
| 5 | Nagar and Nagar (2010), Economic Thoughts and Policy of Dr. B. R. Ambedkar |
| 6 | Permaiah, P.K and Sateesh Reddy (1994) – Dr Ambedkar's Economic Philosophy, Delta Pub, New Delhi |
| 7 | Dongre M K – Economic Thought of Dr B R Ambedkar |
| 8 | Ramaiah Reddy (ed) (1987)- Dr B R Ambedkar's Economic Philosophy |
| 9 | Sukhadeo Thorat(1998), Ambedkar's Role in Economic Planning and Water Policy, Shipra Publications, New Delhi. |
| 10 | Ambedkar B. R. (1936) Annihilation of Caste , Government of Maharashtra , Writings and Speeches of Dr B R Ambedkar , Volume 1, Mumbai. Also see https://www.brambedkar.in/annihilation-of-caste/ |
| 11 | Ambedkar B. R. (1923) THE PROBLEM OF THE RUPEE: ITS ORIGIN AND ITS SOLUTION (HISTORY OF INDIAN CURRENCY & BANKING) http://drambedkar.co.in/wp-content/uploads/books/category1/13the-problem-of-the-rupee.pdf |
| 12 | Vasant Moon (Compiled) (1989) DR. BABASAHEB AMBEDKAR WRITINGS AND SPEECHES VOL. I Part V of https://www.me.gov.in/Images/attach/amb/Volume_01.pdf |





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|----------------------------|--------------------------------|----------------------------|-----------------------|
| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | Environmental Economics | | |
| Course Code: | ECO C16 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand how economic methods can be applied to environmental issues facing society
- CO2. Examine the linkages between Environmental Degradation and Economic Development
- CO3. Develop an informed view regarding the potential of economics to help societies achieve their environmental goals
- CO4. Demonstrate good inter-personal and communication skills through writing an essay and contributing to critical discussion
- CO5. Analyze environmental problems and to assess environmental policies

| MODULES | DESCRIPTION | 60 Hours |
|-------------------|--|-----------------|
| Module I | Environment and Ecology | 15 |
| | Meaning, Nature and Scope of Economics of Environment; Linkages between Environment and the Economy; Environmental Kuznets curve; Environmental Stress; Population and Environment; Poverty and Environment; Meaning and elements of ecology; Biotic and Abiotic components; Food, Hydrological and Carbon Cycles; Material Balanced Principle (Entropy law); Meaning and strategies to achieve Sustainable Development; Rio Summit; Green Accounting Introduction to SDGs | |
| Practicum: | Making charts relating to SDGs or Assignments on environment-economy linkages at the local level | |
| Module II | Natural Resources Scarcity and Conservation | 15 |
| | Meaning and Characteristics of Renewable and Non-renewable resources; Non-Renewable Resources and the problem of depletion and problem of overuse ; Resource Scarcity and Economic Growth (Limits to Growth Model); Energy and Economic Development; Energy resources and their Pricing; Alternative energy sources; Conservation of Natural Resources- 3Rs – Reduce, Reuse and Recycling Measures | |
| Practicum: | Identifying local resources; Project on resource conservation (esp. water) at the College level; Discussion on Limits to Growth | |

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| Module III | Environmental Pollution | 15 |
| | Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection. | |
| Practicum: | visiting the Pollution Control Board office and observing its functions | |
| Module IV | Environmental Pollution and Regulation | 15 |
| | Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection. | |
| Practicum: | Assignments on types of pollution in local areas; Seminars on climate change and its consequences; visiting the Pollution Control Board office and observing its functions | |

| References | |
|-------------------|---|
| 1 | Bhattacharya, R.N (Ed) (2001), <i>Environmental Economics: An Indian Perspective</i> , Oxford University Press. |
| 2 | Karpagam M. (1993), <i>Environmental Economics</i> , Sterling Publishers, New Delhi. |
| 3 | Shankar, U, (2001), <i>Environmental Economics</i> , Oxford University Press, New Delhi. |
| 4 | Singh, Katar and Anil Shisodia (2007): <i>Environmental Economics: Theory and Applications</i> , Sage Publications, New Delhi |
| 5 | Mahajan V.S (2003): <i>Environmental Protection – Challenges & Issues</i> , Deep & Deep Publishers New Delhi |
| 6 | Sengupta, R.P. (Ed.) (2001), <i>Ecology and economics: An Approach to Sustainable Development</i> , Oxford University Press, New Delhi. |
| 7 | Nick Hanley, Jason F, Shogren and Ben White (2005): <i>Environmental Economics in Theory and Practice</i> , Macmillan India Ltd. |





Gulbarga University, Kalaburagi
Department of Studies and Research in Economics

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|----------------------------|-----------------------------|----------------------------|-----------------------|
| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | Industrial Economics | | |
| Course Code: | ECO E2A | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand Industrial Economics in the Indian context.
- CO2. Critically examine and summarize the theories of industrial location.
- CO3. Describe the working of different industrial finance institutions.
- CO4. Identify the major issues involved in Indian industry and Government policies.

| MODULES | DESCRIPTION | 45 Hours |
|---------------------|---|-----------|
| Module – I | Framework of Industrial Economics | 15 |
| | Industrial Economics: Meaning, Nature & Scope, Importance - Concepts: Plant, Firm and Industry; Organization of a Firm; Classification of Firms on the basis of Ownership (Public, Private, Joint and Cooperative Sectors), - Industrial Combinations, causes, Mergers & Acquisitions and Amalgamations; Industrial Location: Meaning, Determinants, Weber's theory, Florence's theory, Industrial location policy in India, Industrial Location trend in India. | |
| Practicum | Visit to nearest firm/organization and prepare the report | |
| Module – II | Industrial Growth and Finance in India | 15 |
| | Industrial growth in India: Review of recent trends in Indian industrial growth and structural transformation. Changing role of Public enterprises, efficiency, productivity and performance constraints - Performance and role of Micro, Small, Medium Enterprises (MSME), Role of MNC's in India, The IT sector in India viewed in world context; Industrial Finance : Internal & External and other components of Funds, Role, Nature, Volume and types of Industrial Finance - Role of Commercial Banks, IDBI, SIDBI, IFCI, SFCs etc. | |
| Practicum | Discussion on sources of Industrial Finance. | |
| Module – III | Issues in Indian Industry and Government Policies | 15 |

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| | Major Issues in Indian Industry: Industrial Backwardness, Problems of Regional Imbalance, Industrial Sickness: Industrial Disputes: Causes and Measures, Industrial Proliferation and Environmental Protection; Government Policies for Industries : Global Competition emerging trend, Government's recent policies - Industrial policy 1991 and subsequent changes, Technology and Foreign Collaboration Policy, |
| Practicum | Seminar on Industrial disputes. |

| References | |
|------------|---|
| 1 | Barthwal R.R. (2022), <i>Industrial Economics: An Introductory Textbook</i> , 3 rd Edn, NewAge International Publishers. |
| 2 | Bhalerao N & Desai SSM (2010), <i>Industrial Economy of India</i> , 5 th Edition, Himalaya Publishing House, Bombay. |
| 3 | Cherunilam, F. (1994), <i>Industrial Economics: Indian Perspective</i> , Himalaya Publishing House, Mumbai. |
| 4 | Hay, D. and D.J. Morris (1979), <i>Industrial Economics: Theory and Evidence</i> , Oxford University Press, New Delhi. |
| 5 | Singh, Sai A. and A. N. Sadhu (1988), <i>Industrial Economics</i> , Himalaya Publishing House, Bombay. |
| 6 | Sivayya, K.V. and Das, V.B.M. (2004), <i>Indian Industrial Economy</i> , S. Chand & Co., New Delhi. |



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|----------------------------|-------------------------|----------------------------|-----------------------|
| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | Labour Economics | | |
| Course Code: | ECO E2B | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

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Course Outcomes (COs): After successfully completing the course, the student will be able to:

CO1. Understand the basic concepts of Labour Economics.

CO2. analyze and tackle the labour issues effectively

CO3. Understand the theories of wages as well as wage policy
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| MODULES | DESCRIPTION | 45 Hrs |
|-------------------|--|-----------|
| Module - I | Introduction Labour Economics | 15 |
| | Concept and Definition - Nature, Scope and Importance - Labour as a Unique Factor of Production - Labour Economics as a Branch of Economics - Interdisciplinary Character of Labour Economics; Labour Market Concept of Labour Market and its Features - Difference between Labour Market and Commodity Market - Labour Market Imperfections and Factors Contributing to Imperfections - Determinants of the Supply and the Demand for Labour - Organized and Unorganized Labour. | |
| Practicum | Group Discussion on Labour as a Unique Factor of Production. Assignment on Labour Economics as a branch of economics Visit to Organized and Unorganized Labour Market | |
| Module II | Employment and Wage | 15 |
| | Concept of Employment and Full Employment - Need for Full Employment - Theories of Employment - Classical, Neo-Classical and Modern Approaches to Employment - Unemployment, Causes and Consequences - Technology and Employment - Information Technology Revolution and Employment; Wages Wage Concept and Definitions - Wage and Development - Theories of Wages, Classical, Marginal Productivity and Collective Bargaining Theory of Wage - Wage Differentials - Wage Policy, Objectives and Importance. | |
| Practicum | Presentation on Theories of Employment Undertake evaluation study on wage policies and prepare an assignment. | |
| Module III | Labour Productivity and Labour Welfare | 15 |
| | Concept of Labour Productivity - Measurement and Importance of Labour Productivity - Determinants - Causes for Low Labour Productivity and Measures to Increased Labour Productivity - Technology and Labour Productivity. State and | |
| | Labour: Need for State Intervention in Labour Matters - Methods of Intervention - Labour Social Security and Labour Welfare Measures; Labour Policy, Objectives and Importance - Emerging Perception on State Intervention. | |
| Practicum | Survey on the conditions of Labour in different sectors Debate on need for State Intervention in Labour Matters | |

References

- 1 Bhagoliwal T.N. *Economics of Labour and Industrial Relations*, Sahitya Bhavan, Agra.
- 2 McConnell C.R. and S.L. Brue *Contemporary Labour Economics*, McGraw Hill, New York.
- 3 Mittal and Sanjay Prakash Sharma. *Labour Economics*, RSBA, Jaipur.



Gulbarga University, Kalaburagi
Department of Studies and Research in Economics

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|----------------------------|-------------------------------|----------------------------|-----------------------|
| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | Agricultural Economics | | |
| Course Code: | ECO E2C | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the concepts of Agricultural Economics
- CO2. The students can be able to analyze and understand critical issues effectively.
- CO3. To understand the importance of agricultural economics

| MODULES | DESCRIPTION | 45 Hours |
|-------------------|---|-----------------|
| Module I | Introduction to Agricultural Economics | 15 |
| | Agriculture And Economic Development, Definition and scope of Agriculture Economics – Agriculture in a growing Economy –Interdependence between Agriculture and Industry–Farming System : Traditional, Subsistence, Commercial, co-operative, Collective and State farming– Agriculture Production In India, Features of Indian Agriculture : Extent of Employment and unemployment in Agriculture– Agricultural wages– women in Agriculture– Wage discrimination | |
| Practicum | Collecting information on existing Farming system to understand the existing scenario Collect the information about unemployment in Agricultural Sector | |
| Module II | Size of Holdings and Inputs | 15 |
| | . Farm size, and productivity relationship in Indian Agriculture Factors Affecting Agriculture Growth And Productivity, Technical change and Labour adsorption Size of landholdings–Land Reforms–Supply of Inputs: Irrigation ,Power, Seed and Fertilizer–Pricing of Inputs –Social forestry and Environment Determination of the prices of Agricultural commodities– Agricultural prices policy in India– Crop Insurance | |
| Practicum | Collecting information on size of holdings Collecting information on Irrigation and Productivity in Agriculture | |
| Module III | Agricultural Credit and Markets | 15 |

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| | <p>. Agricultural Credit In India And Agricultural Markets, Demand for Agricultural credit and supply of Agricultural credit – Institutional agencies supplying Agricultural credit: National bank for Agriculture and Rural Development[NABARD],Co-operatives, Commercial Banks, and Regional Rural banks Agricultural Markets :Definition and Scope–Types of Agricultural markets–cooperative marketing and regulated markets: Structure and functioning Agricultural Markets. Challenges To Indian Agriculture, Trends in Agricultural development–Green revolution and its impact–Sustainable Agriculture.</p> |
| Practicum | <p>Conducting surveys to understand the financial needs of Agriculture sector Conducting survey to understand the Price trends in the Agricultural Sector .</p> |

| References | |
|-------------------|--|
| 1 | <ol style="list-style-type: none"> 1. Bilgrami, S.A.R. (1996), <i>Agricultural Economics</i>, Himalaya Publishing House, Delhi. 2. Dandekar V.M (1994), <i>The Indian Economy 1947-1992, Vol I Agriculture</i>, Sage 3. Dantwala, M.L. et.al (1991), <i>Indian Agricultural Development Since Independence</i>, Oxford & IBH, New Delhi. 4. Desai R.G (1998), <i>Agricultural Economics [models, Problems and policy issue]</i>, 5. <i>Government of India (1976), Report of the National Commission on Agriculture</i>, New Delhi. 6. <i>Government of India, Economic Survey (Annual)</i>, New Delhi. 7. Gulati, A. and T. Kelly (1999), <i>Trade Liberalization and Indian Agriculture</i>, Oxford University Press, New Delhi. 8. Tyagi B.P. (2002), <i>Agricultural Economics and Rural development</i>, Jaiprakash |





Gulbarga University, Kalaburagi
Department of Studies and Research in Economics

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| Program Name | BA in Economics | Semester | Sixth Semester |
| Course Title | Economics of Non-Farm Sector | | |
| Course Code: | ECO E2D | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the Meaning, Concepts, objectives, Nature and scope of Economics of Non-Farm Sector.
- CO2. To know the sustainable development of non-farm sector
- CO3. To understand the importance of non-farm sector in the Indian economy
- CO4. To study the Government programmes and policies for non-farm sector.

| MODULES | DESCRIPTION | 45 Hours |
|-------------------|--|-----------|
| Module I | Introduction to Non-Farm Sector | 15 |
| | Meaning and Definition of Non-Farm Sector, Nature of Non-Farm Sector Economics, Importance of non-farm sector, Role of non-farm sector in the rural Economy, the demand for and supply of non-farm labour in the rural Economy. Need of sustainable development of non-farm sector in India, | |
| Practicum | Collecting the information on demand for and supply of nonfarm jobs Collecting information on how to develop and sustain non-farm sector Seminars and discussion | |
| Module II | Non-Farm Sector and Employment | 15 |
| | Types of unemployment in rural India, Nature of nonfarm Employment-Construction, Mining and quarrying, small businesses. Women and women employment in non-farm sector, Agro based Industries, and agro processing industries, Rural Markets, Rural MSMEs, women employment in households and cottage industry, Textile and handlooms, Rural Trade and Transportation. Rural Tourism-Swadesh Darshan. | |
| Practicum | Collecting the information on mining and quarrying workers condition Collecting information on rural trade and transportation Seminars and discussion | |
| Module III | Government Schemes and Policies for Non-Farm Sector | 15 |
| | Role of NGOs in non-farm sector, Government Schemes, MGNREGA, Skill India, Pradhan Mantri Kaushal Vikas Yojna, National Apprenticeship Promotion | |

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| | Scheme , Aajeevika, Deen Dayal Upadhyay Gramin Kaushal Yojana, Pradhan Mantri MUDRA Yojana (PMMY), National Institute of Rural Development and Panchayati Raj (NIRDPR), Establishing cooperative societies. |
| Practicum | Collecting the information on National Apprenticeship Scheme Collecting information on MUDRA Yojana Seminars and discussion |

References

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|---|---|
| 1 | Nayyar Rohini and Sharma N Alakh, (2005), Rural Transformation in India : The Role of Non-Farm Sector: Institute for Human Development |
| 2 | Rao M Koteswars (2000). Rural Employment: The Non-Farm Sector. Deep and Deep publication New Delhi |
| 3 | Chattopadhyay Apurba Kumar and Chakrabarti Saumya (2013) Economics of Rural Non-Farm Sector: Certain Characteristics and Determinants Serial Publication New Delhi |
| 4 | Fisher Thomas (1997), Forgotten Sector: Non-farm employment and enterprises in rural India: Practical Action Publication |
| 5 | Jami.B.Kilangla and M Giribabu. (Eds) : 2020 AGRICULTURE AND RURAL TRANSFORMATION: Issues and Challenges (With Special Reference to North-East India) .Rawat Publication .Jaipur |
| 6 | Government of India. 2020-21. Annual Report: Department of Agriculture, Cooperation and Farmers Welfare |
| 7 | Antony Piyush, V. R.P Gayathri,. Mamgain; (2001) "Social and Economic Security in India" (ed.), Institute for Human Development, New Delhi |



6th Semester

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Department of Studies and Research in Economics

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|----------------------------|----------------------------|----------------------------|-----------------------|
| Program Name | B.Sc. in Economics | Semester | Sixth Semester |
| Course Title | Actuarial Economics | | |
| Course Code: | ECO C13 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Objective:

- To understand the basic actuarial techniques
- To understand the concepts of finance and its application in actuarial economics

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Enables understanding on Actuarial Economics and Insurance sector.
- CO.2.To acquaint with advances in financial models

| Modules | Description | 60 Hours |
|-------------------|---|-----------|
| Module I | Introduction to Actuarial Economics | 10 |
| | Principles of Actuarial Economics - Importance of Finance and Mathematics in Actuarial Economics - The concept of Insurance - Classification of Insurance - Types of Life Insurance - History of Insurance in India - Insurance regulatory and development Act. | |
| Practicum | Assignment on Principles and Importance of Finance and Mathematics in Actuarial Economics | |
| Module II | Theory of Interest | 18 |
| Chapter 4 | Time value of money - Simple interest, compound interest, depreciation, investing over a period. Cash flow models - Zero coupon bonds, fixed interest securities, index linked securities, equity, annuity, an interest on loan, repayment loan. Interest rates - Nominal rate, effective rate and force of interest. | |
| Practicum | Calculate Simple interest, compound interest, depreciation | |
| Module III | Theory of Uncertainty and Risk Models | 18 |
| | Axioms of choice under uncertainty; utility functions; expected utility theorem; measures of risk-absolute and relative risk aversions; measures of investment risk-variance of return, semi-variance of return Decision Theory: Zero-sum two-player games – Domination - The Minimax criterion - Saddle points. | |
| Practicum | Presentation on Theory of Uncertainty and Risk Models | |
| Module IV | Portfolio Theory | 14 |
| | Portfolio Theory - Benefits of Diversification, Models of Asset Returns: - Multifactor Models - The Single Index Model, Asset Pricing Models: - The | |

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| | Capital Asset Pricing Models (CAPM) – Limitations of CAPM. |
| Practicum | Group discussion on Portfolio Theory and Benefits of Diversification |

References

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|---|--|
| 1 | Stephen G. Kellison, The theory of interest. Irwin Mc Graw Hill, 2008. |
| 2 | John Hull, Futures, Options and financial derivatives, Prentice hall publication |
| 3 | Panjer, Harry,H. (1998), Financial economics with applications to investments, Insurance and pensions. The Actuarial foundation. |



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|----------------------------|------------------------------|----------------------------|-----------------------|
| Program Name | B.Sc. in Economics | Semester | Fifth Semester |
| Course Title | Indian Public Finance | | |
| Course Code: | ECO C14 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian Public Finance
- CO2. Enable the students to know the Source and nature of public revenue and expenditure
- CO3. Understand the Budget and different concept of deficits
- CO4. Know the Public debt and its management
- CO5. Understand the fiscal and monetary policy and their tools and importance
- CO7. To enable the students to know the Indian federal financing system and Financial Commissions

| MODULES | DESCRIPTION | 60 Hours |
|-----------------|--|-----------|
| Module I | Public Revenue | 18 |
| | Direct Tax Revenue - Sources of Revenue-Tax and Non-Tax Revenue; Trends and Patterns of Tax Revenue in India; Direct and Indirect Taxes in India; Personal Income Tax Rates and Slabs; Corporate Tax- Tax Rate and Slabs; Indirect Tax Revenue - Indirect Taxes – Earlier Taxes-VAT and MODVAT; Goods and Services Tax (GST)- Objectives and Classification of GST, Tax Rates of GST; Trends and Patterns of GST; Impact of GST on Indian Economy; Tax Reform Commissions. | |

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|-------------------|--|-----------|
| Practicum | Collection and analysis of data on Direct tax Collection and analysis of GST from businesses | |
| Module II | Public Expenditure | 15 |
| | Revenue Expenditure - Classification of Public Expenditure in India; Revenue Account Expenditure- Trends and Patterns; Capital Account Expenditure-Trends and Patterns; Fiscal Responsibility and Budget Management (FRBM) Act; Impact of Public Expenditure on Indian Economy; Expenditure Reforms Commission (ERC) in India; Union Budget and Its Analysis - Meaning and Classification of Budgets; Zero-Based Budget; Composition of Union Budget; Union Budget Analysis (current one); Different Concept of Deficits- Revenue, Fiscal, Primary Deficits | |
| Practicum | Analysis of Union Budget (Current one) Group Discussion on Budget Deficits | |
| Module III | Public Debt and Its Management | 14 |
| | Public Borrowings and Debt - Meaning and Nature of Public Debt; Sources of Public Borrowings; Classification of Public Debt; Trends and Patterns of Central Government Debt; Main Characteristics of Indian Public Debt; Crowding out of Private Investment; Causes of Public Debt in India; Burden of Public Debt and Management in India - Meaning of Burden of Public Debt; Importance of Public Management; Principles of Public Debt Management; Repayment of Public Debt in India; Impact of Public Debt on Indian Economy; Finance Commissions in India | |
| Practicum | Assignment to write on Indian Public Debt and sources of repayment Group Discussion on Burden of Public Debt | |
| Module IV | Fiscal and Monetary Policies and Federal Finance in India | 13 |
| | Fiscal and Monetary Policy India - Meaning and Objectives of Fiscal Policy; Importance of Fiscal Policy; Tools of Fiscal Policy; Meaning and Objectives of Monetary Policy; Importance of Monetary Policy; Tools of Monetary Policy; Indian Federal Finance - Meaning and Importance- Stages of Growth; Allocation of Resources- Division of Functions and Resources; Principles of Federal Finance; Shortcomings of Federal Financing; Finance Commission and Their Recommendations. | |
| Practicum | Group Discussion about the Role of Fiscal and Monetary Policies in controlling inflation Assignment to write the State List, Union List and Concurrent list | |

| References | |
|------------|---|
| 1 | Bhatia H L (2021): Public Finance, S. Chand and Co., New Delhi. |
| 2 | Lekhi R.K (2020): <i>Public Finance</i> , Kalyani Publishers, New Delhi. |
| 3 | Musgrave R.A and Musgrave P.A (2017): <i>Public Finance in Theory and Practice</i> , Mcgraw- Hill Kogakusha, Tokyo. |
| 4 | Om Prakash (2021): <i>Public Economics: Theory a practice</i> , Vishal Publishing Co. Ludhiana. |
| 5 | S.K. Singh (2019): <i>Public Economics: Theory and Practice</i> S. Chand and Co., New Delhi. |
| 6 | Tyagi, B.P (2018): <i>Public Finance</i> , Jai Prakash Nath and Company, Meerut, India. |

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Gulbarga University, Kalaburagi
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|----------------------------|--------------------------------|----------------------------|-----------------------|
| Program Name | B.Sc. in Economics | Semester | Sixth Semester |
| Course Title | International Economics | | |
| Course Code: | ECO C15 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the international trade theories and their application in international trade
- CO2. Explain the concept of terms of trade and demonstrate the effect of trade barriers; and display the ability to analyse the stages of economic integration
- CO3. Understand the concept of BoP and assess the BoP position and examine the changes in forex rate
- CO4. Analyse the role of International trade and financial institutions
- CO5. Demonstrate good inter-personal and communication skills through class participation and contributing to critical discussion on trade issues

| MODULES | DESCRIPTION | 60 Hours |
|-------------------|--|-----------------|
| Module I | International Trade Theories | 15 |
| | Meaning and Importance of International trade; Differences between Internal and International Trade; Trade Theories: Mercantilist view; Absolute cost and comparative cost advantage theories; Haberler's Opportunity cost theory; Hecksher-Ohlin theory; Leontief's paradox | |
| Practicum | Assignment on Ricardo's Comparative cost advantage and Leontief's paradox | |
| Module II | Terms of Trade and Commercial Policy | 18 |
| | Terms of trade- Concept and Types, Factors determining Terms of Trade; Commercial Policy: Free trade v/s Protection; Tariffs: Types and effects; Quotas; Anti-dumping; Economic Integration: Meaning and stages. | |
| Practicum | Debate: Free trade v/s Protection Mini project: Trace the evolution of India towards Economic Integration | |
| Module III | Balance of Payment and Capital Flow | 12 |
| | Balance of Payment: Concept, Components; Disequilibrium in Balance of Payment: Causes and Measures to correct disequilibrium; Foreign Exchange rate: Meaning and types; determination of Foreign exchange rate: Demand for and Supply of Forex; Purchasing Power Parity (PPP) theory; Capital Flow: Meaning and concept of Foreign Investment; Forms of FDI; Advantages and disadvantages of FDI | |

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|-------------------|---|-----------|
| Practicum | Prepare India's Balance of Payment statement using recent Economic Survey Assignment on Forms of FDI | |
| Module IV | International Finance and Trade Institutions | 15 |
| | Bretton Woods Institutions: IMF and IBRD -IDA and IFC: Organization, Objectives, Functions and their role in developing countries; Evolution of WTO: GATT – principles and objectives; WTO: Organization, Objectives, Functions, Agreements and current issues; WTO and developing countries; | |
| Practicum: | Group Discussion: Effectiveness of IMF and IBRD in developing countries Seminar: Agreements of WTO or current issues of WTO | |
| References | | |
| 1 | Sodersten. B. (1993): International Economics, MacMillan, 3 Edition, London, | |
| 2 | Salvatore, D. (2016): International Economics, 12 Edition, Wiley Publication | |
| 3 | Vaish, M. C. and Sudama Singh (1980): International Economics, 3 Edition, Oxford and IBH Publication, New Delhi. | |
| 4 | Carbaugh, R. J. (1999): International Economics, International Thompson Publishing, New York | |
| 5 | Dana, M. S. (2000): International Economics: Study Guide and work Book, 5. Edition, Routledge Publishers, London. | |
| 6 | Kenen, P. B. (1994). The International Economy, Cambridge University Press, London. | |
| 7 | Krugman, P.R. and M. Obstfeld (1994): International Economics: Theory and Policy Addison-Wesley Publications. | |
| 8 | Jackson, JD. (1998) The World Trading System, Cambridge University Press, Mass.Cherunilam, International Economics, TMH, New Delhi. | |
| 9 | D M Mithani, International Economics, Himalaya , Mumbai. | |
| 10 | Jhingan M.L.(2016): International Economics, Vrinda Publications Pvt Ltd-Delhi | |
| 11 | Dwivedi D.N.(2013): International Economics Theory & Policy, Vikas Publishing House Pvt Ltd. | |
| 12 | K.C. Rana & K.N. Verma (2017): International Economics; Vishal Publishing Co. | |
| 13 | Krishnamurthy H.R (2013) : Antarashtreeya Arthashastra ; (Kannada version), Sapna, Bengaluru | |



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Department of Studies and Research in Economics

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|----------------------------|--------------------------------|----------------------------|-----------------------|
| Program Name | B.Sc. in Economics | Semester | Sixth Semester |
| Course Title | Environmental Economics | | |
| Course Code: | ECO C16 | No. of Credits | 4 |
| Contact hours | 60 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand how economic methods can be applied to environmental issues facing society
- CO2. Examine the linkages between Environmental Degradation and Economic Development
- CO3. Develop an informed view regarding the potential of economics to help societies achieve their environmental goals
- CO4. Demonstrate good inter-personal and communication skills through writing an essay and contributing to critical discussion
- CO5. Analyze environmental problems and to assess environmental policies

| MODULES | DESCRIPTION | 60 Hours |
|-------------------|--|-----------------|
| Module I | Environment and Ecology | 15 |
| | Meaning, Nature and Scope of Economics of Environment; Linkages between Environment and the Economy; Environmental Kuznets curve; Environmental Stress; Population and Environment; Poverty and Environment; Meaning and elements of ecology; Biotic and Abiotic components; Food, Hydrological and Carbon Cycles; Material Balanced Principle (Entropy law); Meaning and strategies to achieve Sustainable Development; Rio Summit; Green Accounting Introduction to SDGs | |
| Practicum: | Making charts relating to SDGs or Assignments on environment-economy linkages at the local level | |
| Module II | Natural Resources Scarcity and Conservation | 15 |
| | Meaning and Characteristics of Renewable and Non-renewable resources; Non-Renewable Resources and the problem of depletion and problem of overuse ; Resource Scarcity and Economic Growth (Limits to Growth Model); Energy and Economic Development; Energy resources and their Pricing; Alternative energy sources; Conservation of Natural Resources- 3Rs – Reduce, Reuse and Recycling Measures | |
| Practicum: | Identifying local resources; Project on resource conservation (esp. water) at the College level; Discussion on Limits to Growth | |
| Module III | Environmental Pollution | 15 |

| | | |
|-------------------|---|-----------|
| | Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection. | |
| Practicum: | visiting the Pollution Control Board office and observing its functions | |
| Module IV | Environmental Pollution and Regulation | 15 |
| | Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection. | |
| Practicum: | Assignments on types of pollution in local areas; Seminars on climate change and its consequences; visiting the Pollution Control Board office and observing its functions | |

| References | |
|------------|---|
| 1 | Bhattacharya, R.N (Ed) (2001), <i>Environmental Economics: An Indian Perspective</i> , Oxford University Press. |
| 2 | Karpagam M. (1993), <i>Environmental Economics</i> , Sterling Publishers, New Delhi. |
| 3 | Shankar, U, (2001), <i>Environmental Economics</i> , Oxford University Press, New Delhi. |
| 4 | Singh, Katar and Anil Shisodia (2007): <i>Environmental Economics: Theory and Applications</i> , Sage Publications, New Delhi |
| 5 | Mahajan V.S (2003): <i>Environmental Protection – Challenges & Issues</i> , Deep & Deep Publishers New Delhi |
| 6 | Sengupta, R.P. (Ed.) (2001), <i>Ecology and economics: An Approach to Sustainable Development</i> , Oxford University Press, New Delhi. |
| 7 | Nick Hanley, Jason F, Shogren and Ben White (2005): <i>Environmental Economics in Theory and Practice</i> , Macmillan India Ltd. |





Gulbarga University, Kalaburagi
Department of Studies and Research in Economics

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|----------------------------|---------------------------------|----------------------------|-----------------------|
| Program Name | BSc in Economics | Semester | Sixth Semester |
| Course Title | Economics of Information | | |
| Course Code: | ECO E2A | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Students shall be able to understand the role of information in contemporary economics.
- CO2. Students are expected to understand the strategies for pricing information.
- CO3. Students are expected to understand relevance of information policy in contemporary digital economy.

| MODULES | DESCRIPTION | 45 Hours |
|-------------------|--|-----------|
| Module I | Role of Information in Economy | 15 |
| | Foundations of the Information economy-Introduction to Information economy-Definition of information good-The cost of producing information-Managing intellectual property-Economic and public good-The economics of attention-Technology Systems competition Lock-in and switching costs-Positive feedback, network externalities, and standards Policy | |
| Practicum | Assignment on Role of Information in Economy | |
| Module II | Strategies for Pricing Information | 15 |
| | Pricing Information Goods-Cost of producing information-Costs and competition-Product Personalization-Product pricing-Personalized pricing-Versioning-Group pricing- Price sensitivity, Network effects, Lock-in, Sharing Versioning Information-Types of versioning-Value-subtracted versions-Avoiding pitfalls in versioning-On-line and off-line versions-Goldilocks pricing-Customizing the browser-Bundling-Promotional pricing | |
| Practicum | Survey on Strategies for Pricing Information and write a report on it | |
| Module III | 3 Strategies for Information Industries and Information Policy in New Economy | 15 |

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|------------------|---|--|
| | Cooperation and Compatibility-How standards change the game-Winners and Loser from standards-Tactics in formal standard-setting-Managing open standards-Case Study- Linux Adoption in the Public Sector: An Economic Analysis-Waging a Standards War-Classification of standards wars-Information-age standards wars-Key assets in network markets-Two basic tactics in standards wars-Capstone case: Microsoft Netscape Information Policy overview-Price differentiation-Competition policy-Telecommunications regulation and policy in brief (Indian context) | |
| | The components of Digital Economics-Twelve theme of the new economy-The ten technology shift-The Internet Economy and its Indicators-E-commerce and Digital Economy | |
| Practicum | Presentation on 3 Strategies for Information Industries and Information Policy in New Economy | |

| References [Please refer to the Latest Editions] | |
|--|---|
| 1 | Don Tapscott. The digital economy: Promise and peril in the age of networked intelligence. McGraw-Hill. (ISBN : 0-07-063342-8) |
| 2 | Amrit Tiwana. The knowledge Management Toolkit: Practical techniques for building a knowledge Management System. Pearson Education . (ISBN 981-405-873-4) |



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Department of Studies and Research in Economics

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|----------------------------|---------------------------------|----------------------------|-----------------------|
| Program Name | BSc in Economics | Semester | Sixth Semester |
| Course Title | METHODS OF DATA ANALYSIS | | |
| Course Code: | ECO E2B | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. What are Theoretical Distributions?
- CO2. Hypothesis Testing
- CO3. Techniques of Data Analysis – t test, ANOVA, Factor Analysis, Regression and correlation

| MODULES | DESCRIPTION | 45 Hours |
|----------|--------------------|----------|
| Module I | Hypothesis Testing | 15 |

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|-------------------|---|-----------|
| | Types of Analysis: Univariate, Bivariate and Multivariate Data Analysis - Descriptive vs. Inferential Analysis – Theoretical Distributions – Normal, Chi-square, t, F, Binomial and Poisson Distributions – Concept of Estimator - Sampling Distribution of Estimator - Point and Interval Estimation - Properties of Good Estimator for Small and Large Samples Hypothesis Testing: Steps in Testing of Hypothesis - Approaches to Hypothesis Testing - Confidence Interval Approach -Test of Significance Approach and P-Value Approach- Formulation of Hypothesis - Null and Alternative - Level of Significance - One Sided and Two Sided Hypothesis - Type-I and Type-II Error - Test Statistic- Critical Value | |
| Practicum | Conduct independent research and analysis and formulate and test the hypothesis | |
| Module II | Techniques of Data Analysis | 15 |
| | Estimation of Mean and Variance - Test of Single Sample Mean - Two Independent Means Test - Testing for Means of Paired Data - Test of Single Sample Variance - Two Sample Variance Test – Test of Proportions - Non-Parametric Tests - Testing of Hypotheses: Concepts,. Non-Parametric Tests: Advantages & Disadvantages - Chi-square Tests - Tests for Randomness. Analysis of Variance - Assumptions for Analysis of Variance - Testing for the Equality of K Proportion Means - Between Treatments Estimate of Population Variance - Within Treatments Estimate of Population Variance - Comparing the Variance of Estimates - The F Test - Multiple Comparison Procedures. | |
| Practicum | Presentation on Techniques of Data Analysis | |
| Module III | Advanced Data Analysis | 15 |
| | Factor Analysis: Meaning of Factor Analysis - Objectives of Factor Analysis - Designing a Factor Analysis - Assumptions in Factor Analysis - Deriving Factors and Assessing Overall Fit - Interpreting the Factors - Validation of Factor Analysis. Regression Analysis: Simple Regression, Partial Regression and Multiple Regression Analysis - Assumptions - Estimation of Regression Model. Correlation Analysis: Correlation Analysis - Types of Correlation: Cross Tabulation, Charles Spearman's Coefficient of Correlation, Karl Pearson's Coefficient of Correlation, Coefficient Multiple and Partial Correlation. | |
| Practicum | Debate on Applications of advanced data analysis | |

| References | |
|-------------------|---|
| 1 | Anderson, Sweeney and Willams, (2012) <i>Statistics for Business and Economics</i> , Thomson South Western, US. |
| 2 | Hair, Anderson, Tatham and Black (2009) <i>Multivariate Data Analysis</i> , Pearson Education, Singapore |



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|----------------------------|-------------------------|----------------------------|-----------------------|
| Program Name | BSc in Economics | Semester | Sixth Semester |
| Course Title | Game Theory | | |
| Course Code: | ECO E2C | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Describe the basic elements of a game, including players, strategies, and preferences and explain the basic assumptions for the analysis.
- CO2. Analyze games with simultaneous moves and apply best response analysis to determine the equilibrium of a game.
- CO3. Analyze games with sequential moves and apply backwards induction to determine the equilibrium of a game.
- CO4. Describe and analyze a number of strategic situations frequently observed in economic, political, and social environments and explain the nature of the equilibrium.
- CO5. Describe and analyze a number of strategic situations frequently observed in the business world, including imperfect competition and incentives in organizations.

| MODULES | DESCRIPTION | 45 Hours |
|-------------------|---|-----------|
| Module I | Introduction to Game Theory | 15 |
| | Basic Ideas and Examples – The GPA RAT Race – Why Professors So Mean? - How to Think about Strategic Games – Decisions versus Games - Classifying games : Sequential or Simultaneous - Conflict or Commonality – Single or Repeated with same or changing opponents - Equal or Asymmetric Information – Games with Fixed rules or Manipulable – Cooperative or Non-cooperative – some Terminology: Strategies – Payoffs – Rationality – Common Knowledge of Rules – Equilibrium – Observation and experiment – Uses of game Theory. | |
| Practicum | Group Discussion on the notion of a strategic game and equilibria and identify the characteristics of main applications of these concepts and write an assignment | |
| Module II | Games with Sequential Moves | 10 |
| | Game Trees: Nodes – Branches – Paths of Play – Uncertainty and Nature's Moves – Outcomes and Payoff – Strategies – Tree Construction — Adding More Players – Adding More Moves | |
| Practicum | Solve Games using Trees – Solve Games Adding More Players and Moves | |
| Module III | Simultaneous Move Games – Discrete and Continuous Strategies | 20 |
| | Depicting Simultaneous Move Games with Discrete Strategies – Nash Equilibrium – Nash Equilibrium as a System of Beliefs and Choices – | |

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| | Dominance; Both Players have Dominant Strategies - One Players has a Dominant Strategy – Successive Elimination of Dominant Strategies – Best-Response Analysis - Simultaneous Move Games with Continuous Strategies; Pure Strategies that are Continuous variables - Price Competition – Some Economics of Oligopoly – Political campaign Advertisement – General Method of Finding Nash Equilibria |
| Practicum | Real World Evidence of Nash Equilibrium Computer Software to Solve Game Problems |

| References | |
|------------|---|
| 1 | Avinash K. Dixit and Barry J. Nalebuff: The Art of Strategy, W.W. Norton, 2008. |
| 2 | Martin Osborne, An Introduction to Game Theory, Oxford University Press, 2003 |



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Department of Studies and Research in Economics

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|----------------------------|--|----------------------------|-----------------------|
| Program Name | BSc in Economics | Semester | Sixth Semester |
| Course Title | Operational Research in Economics | | |
| Course Code: | ECO E2D | No. of Credits | 3 |
| Contact hours | 45 Hours | Duration of SEA/Exam | 2 Hours |
| Formative Assessment Marks | 40 | Summative Assessment Marks | 60 |

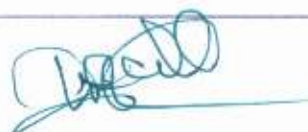
Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Explain the concepts of operational research and history of it.
- CO2. Explain the different approaches to decision analysis
- CO3. To optimize the objective function with given constraints.
- CO4. Solve different types of problems involving linear programming
- CO5. Discuss the concept of system analysis and identify the various categories of systems
- CO6. Describe model and analyze the different types of models
- CO7. Able to draw decision tree
- CO8. Defined simulation and highlight the various types of simulation models

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| MODULES | DESCRIPTION | 45 Hours |
|-------------------|--|-----------|
| Module I | Fundamentals of Operation Research | 15 |
| | Operations Research (OP) – Objectives, History and Development, Definition, Characteristics of Operation Research; Scientific Methods in Operations Research- The Judgment Phase, The Research Phase, The Action Phase ; Necessity of Operations Research in Industry ; Scope and Applications of Operations Research; Scope of Operations Research in Financial Management Tools of OP: Linear Programming (LP)- Formulation of LP Problems, Constrained maximization and minimization, Graphical and algebra solution for LP problems. | |
| Practicum | Designing LP Problem Empirically optimizing objective function Verification of graphical solutions with algebra method. Solving the LP problem in Excel Sheet. | |
| Module II | Modeling in Operational Research | 15 |
| | Introduction , Objectives, Definition, and Classification of Modeling; Characteristics of Good Models , Advantages of Models, Limitations of Models, Constructing a Model ; Types of Mathematical Models ; Introduction to Decision Tree: Definition, Benefits and Disadvantages of Using Decision Tree, Components of the Decision Tree, Structure of a , Decision Tree , Analysis of Decision Tree. | |
| Practicum | Construction of different operation research models Drawing decision tree | |
| Module III | Simulation and System Analysis | 15 |
| | Introduction to Simulation: Objectives, Definition, Advantages of Simulation Technique, Application of Simulation, Limitations of Simulation Technique, Monte Carlo Simulation Introduction to System Analysis: Objectives, Definition, The Systems Theory, Elements of a System, Types of Systems; Forms of Systems - Conceptual System, Mechanical System, Social System, Deterministic System, Probabilistic System; The Concept of Entropy in a System. | |
| Practicum | Simulation experiments Monte Carlo Simulation using software Analysis of probability systems. | |

| References | |
|------------|--|
| 1 | Dixon – Ogbechi, B.N. (2001). <i>Decision Theory in Business</i> . Lagos: Philglad Nig. Ltd. |
| 2 | Gupta, P.K. & Hira, D.S. (2012). <i>Operations Research</i> , New Delhi: S. Chand & Company. |
| 3 | Rama Murthy P (2007). <i>Operations Research</i> , New Delhi: New Age International (P) Limited, Publishers |
| 4 | Taylor III, B.W. (2007). <i>Introduction to Management Science</i> , (9th ed.). New Jersey: Pearson Education Inc. |





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CBCS Question Paper Pattern for UG Semester
DSC, DSEC & OEC

| | | | |
|------------------|-------------------------|--------------|----------|
| Paper Code: | | Paper Title: | |
| Duration of Exam | 2 Hours | Max Marks | 60 Marks |
| Instruction: | Answer all the sections | | |

Section-A

| | |
|--|-----------|
| 1. Answer ALL the following sub-questions, each sub-question carries ONE mark | (10X1=10) |
| A. | |
| B. | |
| C. | |
| D. | |
| . | |
| J. | |
| <i>Note for Section-A: Three sub-questions from each unit and remaining one sub-question (J) from unit I to III.</i> | |

Section-B

| | |
|--|----------|
| Answer any FOUR of the following questions, each question carries FIVE marks | (4X5=20) |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| <i>Note for Section-B: Minimum Two question from each unit (Q No 2 to 6)</i> | |

Section-C

| | |
|--|-----------|
| Answer any THREE of the following questions, each question carries TEN marks | (3X10=30) |
|--|-----------|

[Handwritten signature]

8.

9.

10.

11.

12.

Note for Section-C: Minimum Two question from each unit (Q No 8 to 12) Sub-questions such as 'a' and 'b' may be given for a question in section-C only.



ಮುಖ್ಯಸ್ಥರು

ಅರಸೀಕೆರೆ ಅಧ್ಯಯನ ಮತ್ತು ಸಂಶೋಧನಾ
ವಿಭಾಗ ರಾಜೀವ್ ಗಾಂಧಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕಲಬುರಗಿ