Kurukshetra University, Kurukshetra

(Established by the State Legislature Act-XII of 1956)

("A++" Grade, NAAC Accredited)

Scheme & Syllabus of Examination

for

Under Graduate Programme

in

ECONOMICS

as per NEP 2020
Curriculum and Credit Framework for Undergraduate Programme

Syllabi for the Subject: ECONOMICS (Semester 1st to 8th)

Choice Based Credit System (CBCS-LOCF) in accordance with NEP-2020
w.e.f. 2024-25 (in phased manner) for all affiliated colleges of KUK

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119
HARYANA, INDIA

DEPARTMENT OF ECONOMICS
KURUKSHETRA UNIVERSITY, KURUKSHETRA
(Established by the state Legislature Act –XII of 1956)

Structure, Scheme of Examination and Syllabi (Semester I, II, III, IV, V, VI, VII & VIII) for the Subject of ECONOMICS
Choice Based Credit System (CBCS-LOCF) in accordance with NEP-2020 with Multiple Entry/Exit System
w.e.f. 2024-25 (in phased manner)
REVIESED SCHEME

List of Courses Offered in Subject of Economics for UG Programmes – Multidisciplinary (Scheme A), Major in Economics & Minor in Other Subject (Scheme B) and Single Major in Economics (Scheme C)

Se m	Course Type	Course Code	Name of Course (In the Scheme proposed by UG BOS Economics this year)	Credit s	Conta ct Hours per Week	Internal Assessm ent Marks	End Term Exam Marks	Total Marks	Duration of Exam (Hrs.)
I	CC-1 MCC-1	B23-ECO-101	MICRO ECONOMICS-I	4	4	30	70	100	3
I	MCC-2	B23-ECO-102	BASIC PUBLIC FINANCE	4	4	30	70	100	3
I	CC-M1	B23-ECO-103	INTRODUCTORY ECONOMICS	2	2	15	35	50	3
I	MDC-1	B23-ECO-104	BASICS OF ECONOMICS	3	3	25	50	75	3
II	CC-2 MCC-3	B23-ECO-201	MACRO ECONOMICS-I	4	4	30	70	100	3
II	CC-M2	B23-ECO-202	INTRODUCTION TO INDIAN ECONOMY	2	2	15	35	50	3
II	DSEC-1	B23-ECO-203	ECONOMIC SURVEY TECHNIQUES	4	5	20T+10P	50T+20P	100	3
II	MDC-2	B23-ECO-204	INDIAN ECONOMIC ENVIRONMENT	3	3	25	50	75	3
III	CC-3 MCC-4	B23-ECO-301	MICRO ECONOMICS-II	4	4	30	70	100	3
III	MCC-5	B23-ECO-	BASIC STATISTICS FOR ECONOMICS	4	4	30	70	100	3

		302							
III	MDC-3	B23-ECO-303	CURRENT ISSUES IN GLOBAL ECONOMY	3	3	25	50	75	3
III	CC-M3	B25-ECO-304	MONEY, BANKING AND FINACE	4	4	30	70	100	3
IV	CC-4 MCC-6	B23-ECO-401	MACRO ECONOMICS-II	4	4	30	70	100	3
IV	MCC-7	B23-ECO-402	ADVANCED STATISTICS FOR ECONOMICS	4	4	30	70	100	3
IV	MCC-8	B23-ECO-403	INDIAN FINANCIAL SYSTEM	4	4	30	70	100	3
IV	DSE-1	B23-ECO-404	INDUSTRIAL ECONOMICS	4	4	30	70	100	3
IV	DSE-1	B23-ECO-405	MONEY & BANKING	4	4	30	70	100	3
V	CC-5 MCC-9	B23-ECO-501	ECONOMICS OF GROWTH & DEVELOPMENT	4	4	30	70	100	3
V	MCC-10	B23-ECO-502	DEMOGRAPHY	4	4	30	70	100	3
V	DSE-2	B23-ECO-503	ECONOMICS OF INFRASTRUCTURE	4	4	30	70	100	3
V	DSE-2	B23-ECO-504	ECONOMICS OF AGRICULTURE	4	4	30	70	100	3
V	DSE-3	B23-ECO-505	FINANCIAL ECONOMICS	4	4	30	70	100	3
V	DSE-3	B23-ECO-506	HARYANA ECONOMY	4	4	30	70	100	3
VI	CC-6 MCC-11	B23-ECO-601	INDIAN ECONOMY	4	4	30	70	100	3
VI	MCC-12	B23-ECO-602	ECONOMICS OF LABOUR	4	4	30	70	100	3
VI	DSE-4	B23-ECO-603	COMPUTER APPLICATIONS IN ECONOMICS	4	5	20T+10P	50T+20P	100	3

VI	DSE-4	B23-ECO-604	ECONOMICS OF INSURANCE	4	4	30	70	100	3
VI	DSE-5	B23-ECO-605	GENDER ECONOMICS	4	4	30	70	100	3
VI	DSE-5	B23-ECO-606	WELFARE ECONOMICS	4	4	30	70	100	3
VI	CC-M6	B25-ECO-607	FUNDAMENTALS OF ECONOMIC DEVELOPMENT	4	4	30	70	100	3
VII	CC-H1	B23-ECO-701	MATHEMATICS FOR ECONOMICS	4	4	30	70	100	3
VII	CC-H2	B23-ECO-702	INTERNATIONAL ECONOMICS	4	4	30	70	100	3
VII	CC-H3	B23-ECO-703	PUBLIC ECONOMICS	4	4	30	70	100	3
VII	DSE-6	B23-ECO-704	INTRODUCTION TO ECONOMETRICS	4	4	30	70	100	3
VII	DSE-6	B23-ECO-705	GROWTH MODELS IN ECONOMICS	4	4	30	70	100	3
VII	PC-H1	B23-ECO-706	ECONOMIC DATA ANALYSIS	4	8	30P	70P	100	3
VII	CC-HM1	B25-ECO-707	**Basics of Demography**	4	4	30	70	100	3
VIII	CC-H4	B23-ECO-801	MATHEMATICAL ECONOMICS	4	4	30	70	100	3
VIII	CC-H5	B23-ECO-802	ENVIRONMENTAL ECONOMICS	4	4	30	70	100	3
VIII	CC-H6	B23-ECO-803	SCHOOLS OF ECONOMIC THOUGHT	4	4	30	70	100	3
VIII	DSE-7	B23-ECO-804	ECONOMICS OF HEALTH	4	4	30	70	100	3
VIII	DSE-7	B23-ECO-805	ECONOMICS OF EDUCATION	4	4	30	70	100	3
VI	PC-	B23-	APPLICATION	4	8	30P	70P	100	3

II	H2	ECO-806	SOFTWARE(S) FOR ECONOMICS						
VIII	CC-HM2	B25-ECO-807	**Economic Policy in India**	4	4	30	70	100	3

LIST OF SEC (ECONOMICS) FOR UG

SR. NO.	COURCE NAME	CREDIT	SEMESTER
1.	ECONOMIC DATA COLLECTION METHOD	3	II
2.	ECONOMICS USING EXCEL	3	III
3.	UNDERSTANDING ECONOMIC SURVEY AND BUDGET	2	VI

LIST OF VOC (ECONOMICS) FOR UG

SR. NO.	COURCE NAME	CREDIT	SEMESTER
1.	INDICES IN ECONOMIC ANALYSIS	4	III
2.	UNDERSTANDING ECONOMIC POLICY	4	IV
3.	FINANCIAL LITERACY & HOUSEHOLD ECONOMICS	4	VI

The Color Code for Understanding the Courses Chosen for the Schemes

Semester	I	II	III	IV	V	VI	VII	VIII
Core Courses	CC-1 MCC-1 @ 4 Credit	CC-2 MCC-3 @ 4 Credit	CC-3 MCC-4 @ 4 Credit	CC-4 MCC-6 @ 4 Credit	CC-5 MCC-9 @ 4 Credit	CC-6 MCC-11 @ 4 Credit	CC-H1 @ 4 Credit	CC-H4 @ 4 Credit
	MCC-2 @ 4 credit		MCC-5 @ 4 Credit	MCC-7 @ 4 Credit	MCC-10 @ 4 Credit	MCC-12 @ 4 Credit	CC-H2 @ 4 Credit	CC-H5 @ 4 Credit
	CC-M1 @ 2 credit	CC-M2 @ 2 credit		MCC-8 @ 4 Credit			CC-H3 @ 4 Credit	CC-H6 @ 4 Credit
Discipline SpecificElective				DSE-1 @ 4	DSE-2 @4 credit	DSE-4 @ 4	DSE-6 @ 4 Credit	DSE-7 @ 4 Credit

courses				Credit		Credit		
					DSE-3 @ 4 Credit	DSE-5 @ 4 Credit		
Skill enhancement/ Practicum Course		DSEC-1 @4 credit					PC-H1 @ 4 Credit	PC-H2 @ 4 Credit
Vocational Course			Voc-1	Voc-2 $ @ 4credit	Voc-3 $@ 4credit	Voc-4 $ @ 4credit		
Multidisciplinary Course	MDC-1 @ 3 credit	MDC- 2 @ 3 credit	MDC- 3 @ 3 credit					

	Core courses for students studying subject as Major/Minor in both schemes (Multidisciplinary and One Major-one Minor subject)
	Course only for students studying subject as Major subject
	Discipline specific Elective Courses
	Skill Enhancement/Practicum Courses of Major Subject
	Minor (Vocational) Courses. $ To be framed only by those departments which can offer a vocational course.
	Multidisciplinary course-for students of other disciplines
	Minor Courses

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	III
Name of the Course	**Money, Banking and Finance**
Course Code	B25-ECO-304
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	CC-M3
Level of the course (As per Annexure-I)	200-299
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1.Know the evolution and significance of money as well as monetary standards, and appreciate the theory of money supply, and demand for money. 2. Understand the system of commercial as well as central banking. 3. Elucidate the structure of financial sector and working of its various components. 4. Have understanding about foreign exchange rate mechanism, and related theories.

Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours Per Week	03	1	04

Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**

Part-B Contents of the Course

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Introduction to Money** Money: Evolution, Functions, Classification and Significance; Monetary Standards; Money Supply: Determinants, and Measures; Quantity Theory of Money; Keynes' Liquidity Preference Theory.	15
II	**Fundamentals of Banking** Commercial Banks- Functions and Importance, Process of Credit Creation; The Reserve Banking of India: Functions and Instruments of credit control, Recent Monetary Policy of RBI.	15
III	**Financial Sector** Money and Capital Markets in India: Structure, Functions and Significance; SEBI: Powers and Functions; Non-Bank Financial Intermediaries- Role and Significance;	15

	Recent Financial Sector Reforms in India.	
IV	**Foreign Exchange Rate** Fixed and Flexible Exchange Rate: Meaning, merits and demerits, determination;Theories of Exchange Rate: Mint Par, and Purchasing Power Parity.	15
V*		

Suggested Evaluation Methods	
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)** Class Participation :5 Seminar/Presentation/Assignment/Quiz/Class Test etc. :10 Mid Term Exam :15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	**End Term Examination:70** Theory

Part-C Learning Resources
Recommended Books/E-Resources/LMS: - M.K. Lewis (2000). *Monetary Economics,* Oxford University Press.   - Bailey Roy (2005). *The Economics of Financial Markets*.   - R.R. Paul (2008).*Money, Banking and International Trade. Kalyani Publishers.*   - Cauvery R., Kruparani N., Nayak, Sudha U.K., & Manimekalai A. (2003). *Monetary Economics.* S.Chand &Company LTD., New Delhi.   - Salvatore, D. (2004). *Introduction to international economics.* Wiley India.   *R.B.I. Bulletin, Annual Report; Report on Currency and Finance.*   - VK Global Publication PVT LTD, Money and Banking, Delhi   - VK Global Publication PVT LTD, Fundamentals of Indian Capital Markets, Delhi

Session 2025-2026			
Part-A Introduction			
Subject	Economics		
Semester	IV		
Name of the Course	**ADVANCED STATISTICS FOR ECONOMICS**		
Course Code	**B23-ECO-402**		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	MCC		
Level of the course (As per Annexure-I)	200-299		
Pre-requisite for the course (if any)	MCC-5 B23-ECO-302 BASIC STATISTICS FOR ECONOMICS		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Define correlation, calculate, and interpret Pearson's and Spearman's correlation coefficients, understand their properties and limitations, differentiate between correlation and causation 2. Identify dependent and independent variables, formulate regression models, estimate, and interpret coefficients using ordinary least squares, assess goodness of fit using R-squared 3. Understand, solve, and apply the problems on probability 4. Understand and apply various theoretical distributions.		
	5*.		
Credits	Theory	Tutorial	Total

	03	1	04
Contact Hours	03	1	04

Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70	Time: 3 Hrs

<table>
<tr><td colspan="4" align="center">Part-B Contents of the Course</td></tr>
<tr><td colspan="4">1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).</td></tr>
<tr><td>Unit</td><td colspan="2">Topics</td><td>Contact Hours</td></tr>
<tr><td>I</td><td colspan="2">Correlation Analysis:
Definition of correlation and its importance in economics, Types of correlation: positive, negative, and zero correlation. Methods of Studying Correlation: Scatter diagram method, Karl Pearson's coefficient of correlation (Covariance method), Two-way frequency table (Bivariate correlation method), Rank method, Concurrent deviations method; partial and Multiple Correlation (WITH 3 VARIABLES).</td><td>15</td></tr>
<tr><td>II</td><td colspan="2">Regression Analysis:
Introduction to Regression Analysis: Definition and purpose of regression analysis in economics, Understanding the concept of a dependent variable and independent variable, Types of regression models: Simple and multiple linear regression. Estimating the regression coefficients: Ordinary Least Squares Method, Assessing the goodness of fit: Coefficient of determination (R-squared), Interpreting the regression coefficients and their significance.</td><td>15</td></tr>
<tr><td>III</td><td colspan="2">Concept of Probability:
Approaches to probability : Classical approach, Empirical approach, Axiomatic approach; Addition Theorem Of Probability; Multiplication Theorem Of Probability: Independent and Dependent Events; Bayes's Theorem (Rule for the Inverse Probability)</td><td>15</td></tr>
<tr><td>IV</td><td colspan="2">Random Variable:
Discrete And Continuous; Probability Distribution of a Discrete Random Variable; Mathematical Expectation; Binomial Distribution – Conditions, Probability Function Of Binomial Distribution, Constants Of Bionomial Distribution; Poisson Distribution and its applications; properties of Normal distribution and its applications.</td><td>15</td></tr>
<tr><td>V*</td><td colspan="2"></td><td></td></tr>
<tr><td colspan="4" align="center">Suggested Evaluation Methods</td></tr>
<tr><td colspan="3">Internal Assessment: 30
  ➢ Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)
    Class Participation   :5
    Seminar/Presentation/Assignment/Quiz/Class Test etc.   :10
    Mid Term Exam   :15
  ➢ Practicum
    Class Participation
    Seminar/Demonstration/Viva Voce/Lab Records etc.
    Mid Term Exam:</td><td>End Term Examination:70
Theory</td></tr>
</table>

Part-C Learning Resources
Recommended Books/E-Resources/LMS:

- *Aggarwal, B.L. (2006). Basic Statistics. New Age International Publishers, New Delhi.*
- *Anderson, David R., Sweeney, Dennis J. & Williams, Thomas A. (2014).Essentials of Statistics for Business and Economics. South-Western Cengage Learning, USA.*
- *Croxton Frederiel, Dudley J. Gowden and Sidny Klein: Applied General Statistics, New Delhi:*
- *Griffiths, D., W, Douglas and K. Laurence Weldon (1998): Understanding Data: Principles & Practices*
- *Gupta C.B: An Introduction to Statistical Methods, New Delhi, Vikas Publishers.*
- *Gupta S.P: Statistical Methods, New Delhi, Chand & Co.*
- *Gupta, S.C. &Kapoor, V.K. (2007). Fundamentals of Applied Statistics. S. Chand and Sons, New Delhi..*
- *Kamenta J. (1997). Elements of Econometrics. Macmillan Publishing Co., Inc. New York.*
- *Karmal, P.H. & Polasek, M. (1978). Applied Statistics for Economists. Pitman, Australia.*
- *Naghshpour, S. (2012). Statistics for Economics. Business Expert Press.*
- *Sharma, J.K. (2012). Business Statistics. Dorling Kindersley (India) Pvt. Ltd., New Delhi.*
- *T R Jain, S C Aggarwal, R K Rana: Statistical Methods for Economics V.K Publication House.*

* Applicable for courses having practical component.

Session 2024-2025		
Part-A Introduction		
Subject	Economics		
Semester	V		
Name of the Course	ECONOMICS OF GROWTH & DEVELOPMENT		
Course Code	B23-ECO-501		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	CC-5, MCC-9		
Level of the course (As per Annexure-I)	300-399		
Pre-requisite for the course (if any)	N.A.		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Appreciate the concepts of growth and development, along with the various measures of economic development. 2. Analyse various resources as well as challenges in context of economic development. 3. Understand the process of economic growth as explained by various classical economists. 4. Comprehend various development strategies and their application.		
	5*.		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70	Time: 3 Hrs		

Part-B Contents of the Course

Instructions for Paper Setters

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Concepts of Economic Development** Economic Growth and Economic Development; Measurement of Economic Development: Per Capita Income, Basic Needs	

	Approach, Physical Quality of Life Index (PQLI), Human Development Index (HDI) and World Happiness Index;Concept of Sustainable Development.	15
II	**Determinants and Challenges of Economic Development:** Economic and non-economicresourcesfor Economic Development; Poverty: Concept and measurement, vicious circle of poverty, Economic inequality; Concept and measurement; Lorenz curve, Kuznets hypothesis.	15
III	**Theories of Economic Growth and Developments;** Contribution of Adam Smith, Ricardo, Karl Marx and Schumpeter	15
IV	**Development Strategies:** Balanced and Unbalanced Growth; Theory of Big Push; Critical Minimum Efforts Thesis, low level equilibrium.	15
V*		
Suggested Evaluation Methods		

Internal Assessment: 30		End Term Examination: 70
➤ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)**		Theory
Class Participation	5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	10	
Mid Term Exam	15	
➤ **Practicum**		
Class Participation		
Seminar/Demonstration/Viva Voce/Lab Records etc.		
Mid Term Exam:		

Part-C Learning Resources
Recommended Books/E-Resources/LMS: • Adelman, I, (1961), Theories of Economics Growth and Development, Stanford University Press, Stanford.   • Barro, R. and X. Salai- Martin, Economics Growth, McGraw Hill, New York.   • Chakravarti, S. (1982), Alternative Approaches to the Theory of EconomicGrowth, Oxford University Press, New Delhi.   • Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.   • Higgins, B.(19590, Economic Development, W.W. Norton, New York.   • Kindleberger, C. P. (1977), Economics Development, (3rd Edition), McGrawHill, New York.   • Meier, G.M. and J.E. Rauch (2005), Leading Issues in Economics Development, (8th Edition), Oxford University Press, New Delhi.   • Todaro, M.P. and S.C. Smith (2003), (8th Edition), Economics Development, Pearson Education, Delhi.   • Thirlwal, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.   • Mishra S.K. and V.K. Puri 'Economics Development and Planning. (Latest Edition)   • VK Global Publication PVT LTD, Development Economics, Delhi

Part-A Introduction

Subject	**Economics**
Semester	5
Name of the Course	**Demography**
Course Code	**B23-ECO-502**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	MCC-10
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Comprehend the basics of demography. 2. Draw on demographic concepts and population theories to explain past and present population characteristics. 3. Analyze the world population growth and trends and distinguish between the populations patterns of developed and less developed countries. 4. Describe and compare the demographic process of fertility, mortality and migration. 5. Understand and analyze various demographic issues in India.
5*	

Credits	Theory	Tutorial	Total
	03	01	04
Contact Hours	03	01	04

Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**

Part-B Contents of the Course

Instructions for Paper Setters

4. Nine Questions will be set in all and students will be required to attempt 5 questions.
5. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).

Unit	Topics	Contact Hours
6. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).		
I	**Fundamentals of Demographic Analysis** Definition, Nature and Scope of Demography, Sources of Demographic data: Census, Sample Survey And Vital Registration System; World Population: Growth, composition and Distribution; Population Growth in India, techniques of population Analysis.	15
II	**Theories of Population** Pre-Malthusian population thoughts, Malthusian Doctrine, Optimum Population theory, Theory of Demographic transition, Karl Marx on Population, Biological theory of population, Social theory of population, Becker's Model, Selective Rationality theory, Value of Children model: Hoffman & Hoffman.	15
III	**Fertility and Mortality** Fecundity, and fertility, infertility and miscarriages, factor affecting fertility, Basic measures of fertility, level and trends in fertility in the world, Concept and measures of mortality, sex and age pattern of mortality, infant and child mortality, Maternal mortality classification of causes of death, levels and trends in mortality.	15
IV	**Population and Economic Development** Meaning of migration, types, determinants and effects of migration, migration in India. Population and Economic Development, Human Development , Environmental Concerns, World population policies, Demographic features of Indian Population, Population Policies of India.	15
V*		
Suggested Evaluation Methods		

Internal Assessment: 30	End Term Examination:70
➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)** Class Participation :5 Seminar/Presentation/Assignment/Quiz/Class Test etc. :10 Mid Term Exam :15	Theory

➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	

Part-C Learning Resources

Recommended Books/E-Resources/LMS:

- Bouge, D.J. (1971). Principles of Demography, John Wiley, New York.
- Harper, S. (2018). Demography: A Very Short Introduction, Cambridge University Press.
- Weinstein, J. & Pillai, V.K. (2015). Demography: The Science of Population. Rowman & Littlefield Publications.
- Majumdar, P.K. (2010). Fundamentals of Demography. Rawat Publication.
- Pathak, K.B. & Ram, F. (2016). Techniques of Demographic Analysis. Himalaya Publishing House.
- Weinstein, J. & Pillai, V.K. (2015). Demography: The Science of Population. Rowman & Littlefield Publications.
- VK Global Publication PVT LTD, Development Economics, Delhi
- VK Global Publication PVT LTD, Indian Economy, Delhi

Part-A Introduction

Subject	Economics
Semester	V
Name of the Course	Economics of Infrastructure
Course Code	**B23-ECO-503**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/VAC)	DSE-2
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Get exposure to the concepts and problems related to Infrastructure as well as role of Infrastructure in Economic Development. 2. Understand the concept of Economic Infrastructure and Knowledge of related policies. 3. Understand the Economics of Physical Infrastructure and infrastructure financing. 4. Understand, analyze and interpret the Economics of Social Infrastructure, it pricing and coming out with some suggestive policies.

	5*		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04

Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70	**Time: 3 Hrs**

Part-B Contents of the Course

Instructions for Paper Setters
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Infrastructure and Economic Development: -** Infrastructure-Meaning and Definition, Infrastructure- Development linkages; Infrastructure as a Public Good; Difference between Physical and Social Infrastructure, Role of Infrastructure in Indian Economy, Issues in privatization of infrastructure.	15

II	**Energy and Power Infrastructure** Primacy of Energy in the process of economic development; Sources of Energy: Renewable & Non-Renewable; Nuclear Energy, Solar and Wind Energy; Energy Conservation. Effects of Energy Shortages; The search for optimal Energy Policy in the Indian Context. Power Generation: Distribution & Pricing Policy, Privatization of Power Sector.	15
III	**Transport Infrastructure** Economics of transportation network growth, Transport demand, Price elasticity of transport demand, Economies of scale and behavior of transport costs; Transport and economic development, Transportation Infrastructure Finance: – Public –Private Partnership Models and its Examples.	15
IV	**Social Infrastructure** Health Service: Medical Facilities, State and Provision of Health, Drinking Water and Sanitation; Issues in Privatization of Health Services. Various Government Schemes in Health. Education- Concept and Scope of Human Resource Development; Education and Economic Growth, Primary, Higher and Professional Education, Right to Education.	15
V*		

Suggested Evaluation Methods		
Internal Assessment: 30 ➤ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**		**End Term Examination:70** Theory
Class Participation	5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	10	
Mid Term Exam	15	
➤ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:		
Part-C Learning Resources		
Recommended Books/E-Resources/LMS: • Bailey Roy (2005) Infrastructure Economics, Vrinda Publications P Ltd • N Mani (2012)Infrastructure Development and Financing in India, New Century Publication • Jonathan Cowie (2010) The Economics of Transport, by Routledge. • K. Narindar Jetli, Vishal Sethi (2007), Infrastructure Development in India: Post-liberalization Initiatives and Challenges, New Century Publication • Dwivedi, Rishi Muni (2011) Energy sources and policies in India, New CenturyPublications • VK Global Publication PVT LTD, Indian Economy, Delhi		

Part-A Introduction			
Subject	Economics		
Semester	V		
Name of the Course	ECONOMICS OF AGRICULTURE		
Course Code	B23-ECO-504		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-2		
Level of the course (As per Annexure-I)	300-399		
Pre-requisite for the course (if any)	N.A.		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able: 1. To understand the importance of agriculture in economic development. 2. to familiarize with policy issues that are relevant to Indian Agricultural Economics. 3. To examine various policies (credit, input, pricing, food security, marketing, trade) pertaining to Indian agricultural sector. 4. To enhance the students' awareness on contemporary problems of agriculture sector.		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**		

Part-B Contents of the Course
Instructions for Paper Setters

7. Nine Questions will be set in all and students will be required to attempt 5 questions.
8. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
9. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**AGRICULTURE AND ECONOMIC DEVELOPMENT** Nature and Scope of Agricultural Economics – Traditional Agriculture and its Modernization: Sustainable Agriculture and Organic Farming – Interdependence between Agriculture and Industry. Contribution of agriculture in economic development. **AGRICULTURAL FINANCE** Need for Agricultural Finance – Non-institutional Sources of Agricultural Finance: Money Lenders - Traders Commission Agency - Land lords – Institutional Sources of Agricultural Finance: Cooperative Banks, Commercial Banks, NABARD, RRBs.	15
II	**Agricultural Development in India** Indian Agriculture: Features, Problems and Trends; Agricultural Productivity in India – Causes of Low Productivity and Suggestions to increase Productivity in India; Agricultural Growth in India Agricultural growth in India since independence – Sources of Growth and instability in Indian agriculture:; Risk and Uncertainty in Agriculture; cropping pattern shifts; Agricultural technology – Irrigation, HYV seed, Fertilizers and micronutrients; Critique of green revolution and need of sustainable and water-conservation agriculture	15
III	**AGRICULTURAL PRICING** Fluctuations in Agricultural Price: Causes and Impacts; Price Stabilization: Agriculture price and food policy. Need for Government intervention;	
	Objectives of Price policy; Types of Agriculture Prices: Minimum Support Prices and Statutory Minimum Support Price, Procurement Prices; Fixation of Minimum Support Price; Food Corporation of India and Buffer stock; Public Distribution System (PDS) in India and its critique; National Food Security Act.	15
IV	**AGRICULTURAL MARKETING** Agricultural Marketing and its Importance; Components of Agriculture Market and Classifications; Marketable and Marketed Surplus; Marketing functions; Marketing Channels; Defects of Agricultural Marketing – Lines of Improvement.	15

V*		

<table>
<tr><td colspan="2" align="center">Suggested Evaluation Methods</td></tr>
<tr><td>Internal Assessment: 30
  ➤ Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)
    Class Participation
    :5
    Seminar/Presentation/Assignment/Quiz/Class Test etc.
    :10
    Mid Term Exam
    :15
  ➤ Practicum
    Class Participation
    Seminar/Demonstration/Viva Voce/Lab Records etc.
    Mid Term Exam:</td><td> End Term Examination:70
Theory</td></tr>
</table>

Part-C Learning Resources

Recommended Books/E-Resources/LMS:
- Bilgrami, S.A.R. (1996): Agricultural Economics, Himalayas Publishing House, Delhi.
- Dantwala, M.L. et al., (1991): Indian Agricultural Development since Independence, Oxford & IBH, New Delhi.
- Gaurav Datt and Ashwani Maharaj C (2014), Datt and Sundaram's Indian Economy, S.Chand& Co., New Delhi.
- Gualti, A. and T.Kelly (1999): Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi.
- Halcrow, H.G.(1981), Economics of Agriculture, McGraw Hill International Book Agency.
- Kahion, A.S. and Tyagi D.D. (1983): Agriculture Price Policy in India, Allied Publishers, New Delhi
- Meier, G.M. (1995), Leading Issues in Economic Development, Oxford University Press, New Delhi.
- Sadhu and Singh (1991), Agricultural Problems in India, Himalaya Publishing House, New Delhi.

- Sadhu and Singh (2002), Fundamentals of Agricultural Economics, Himalaya Publishing House, New Delhi.
- Sadhu and Singh (2013) Fundamentals of Agricultural Economics, Himalaya, New Delhi.
- Taylor, H.C.(1949), Outlines of Agriculture Economics, MacMillan, New York
- VK Global Publication PVT LTD, Indian Economy, Delhi

	Session 2024-2025		
	Part-A Introduction		
Subject	Economics		
Semester	**Semester: V**		
Name of the Course	**FINANCIAL ECONOMICS**		
Course Code	B23-ECO-505		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-3		
Level of the course (As per Annexure-I)	300-399		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: - Understand about Nature, scope and objectives of financial economics. - Analyze financial markets and its meaning, functions and types of financial markets. - Know about Components of Money Market; Call Money Market, Acceptance Market, Bills Market etc. - Understand about capital market, distinction between money market and capital market. - Evaluate about money supply determinants & RBI measures of monetary aggregates.		
Credits	Theory	Tutorial	Total
	03	01	04
Contact Hours	03	01	04
Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hours**		
	Part-B Contents of the Course		

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. **Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14marks).**

For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours

I	Nature, Scope and Objective of Financial Economics; Goals of Finance; Nature, Importance and Limitations of Financial Statements; Fund Flow Statement; Cash Flow Statement; Tools of Financial Analysis-Trend Analysis, Ratio Analysis	15
II	Financial Markets- Meaning, Functions and Types of Financial Markets. Money Market-Meaning, Functions & Structure of Money Market, Growth of Indian Money Market, Components of Money Market; Call Money Market, Acceptance Market, Bills Market, Commercial Paper Market. Certificates of Deposits Market in India.	15
III	Capital Market: Nature and Role of Functions, Distinction between Money market and Capital Market, Primary Market, Secondary market, Operational Mechanism of Capital Market.	15
IV	Money Supply Determinants; High-Powered Money and Money Multiplier; RBI Measures of Monetary Aggregates. Fisher's Transactions Approach to the Quantity Theory of Money; Cambridge Cash- Balances Approach; Keynes Demand Theory of Money; Friedman's Theory of Demand for Money.	15
Suggested Evaluation Methods		
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)** Class Participation:5 Seminar/Presentation/Assignment/Quiz/Class Test etc.:10 Mid Term Exam:15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:		**End Term Examination:70** Theory
Part-C Learning Resources		
Recommended Books/E-Resources/LMS: • Khan, MY: Indian Financial System; Tata-McGrawhill • Arrow Kenneth, J. (1963), Social Choice and Individual Value, Yale University Press, New Haven • Atkinson A. B., and Siglitz J. E. (1980),• Lectures on Public Economics, Tata MacGraw Hill, New York.		

- Bagchi, Amaresh (2005) Reading in Taxation, Oxford Press.
- Baumo, W.J. (ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd., U.K.
- Broadway, R.W. and N. Bruce (1984), Welfare Economics, Basil Blackwell, Oxford.
- Bruce, Neil, Public Finance, Addison-Wesley Educational Publishers, Inc).
- Buchanan, J. M. (1970), The Public Finances, Richard D.li-win, Homewood.
- VK Global Publication PVT LTD, Fundamental of Indian Capital Market, Delhi

Session 2024-2025

Part-A Introduction

Subject	Economics
Semester	V
Name of the Course	**Haryana Economy**
Course Code	**B23-ECO-506**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-3
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Understand, explain and analyze growth and development of Haryana. 2. Describe and critically analyze growth in Haryana agriculture sector and evaluate various financing and insurance schemes. 3. Analyze industrial growth and know about the role of HSIIDC, HAFED, HKVIB. . 4. Explain and analyze the evolution of budget and State Finance Commission.

	5*.		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours Per Week	03	1	04
Max. Marks: 100 **Internal Assessment Marks: 30**	**Time: 3 Hrs**		

End Term Exam Marks: 70	

Part-B Contents of the Course	
1. Nine Questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14marks). 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).	

Unit	Topics	Contact Hours
I	**Haryana Economy and Prospects**: Nature, Characteristics and Problems; Concept of Economic Development; Financial Inclusions. **State of the Haryana economy since its inception**: Income; Demogarphy, Health & Nutrition .	15
II	**Haryana agriculture**: Nature, cropping pattern, role of agriculture in Haryana economy, Green Revolution, Measures for development in agriculture, crop insurance. **Agriculture credit**: agriculture finance, types of agriculture finance; credit needs of farmers; sources of credit(institutional and non-institutional sources); rural indebtedness: causes, consequences and debt relief measures.	15
III	**Micro, Small & Medium Enterprises (MSME) in Haryana**: Meaning, Role, Performance and Challenges; SEZ, **Institutions** Functions, role and performance of HSIIDC, HAFED, HKVIB.	15
IV	**Haryana budget**: Objectives and Policies, Expenditure, Sources of Revenues and its Utilization; **Latest State Finance Commission**: Key issues and recommendations.	15
V*		

Suggested Evaluation Methods		
Internal Assessment: 30 ☐ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**		**End Term Examination:70** Theory

Class Participation	:5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	:10	
Mid Term Exam	:15	
☐ **Practicum**		
Class Participation		
Seminar/Demonstration/Viva Voce/Lab Records etc.		
Mid Term Exam:		

Part-C Learning Resources
Recommended Books/E-Resources/LMS: • Department of Economic and Statistical Analysis, Government of Haryana Panchkula. Economic Survey of Haryana (various issues). • Planning Commission (2009). Haryana Development Report. Government of India, New Delhi. • Haryana for Industry, Designed and produced by the Publicity Division, I.A.G. Department of Industries, Govt. of Haryana, Chandigarh. • HSIIDC: Haryana's Industrial Catalyst, Designed and produced by the Publicity Division, I.A.G. Department of Industries, Haryana, Chandigarh. • Laxmi Narayan &Kaswan, KavitaBhambu (2019). Haryana Economy: Patterns, Potentials and Prospects. White Falcon Publishing. • Singh, M. &Kaur, H. (2004). Economic Development of Haryana. Deep & Deep Publications. • https://sfc.haryana.gov.in/ • VK Global Publication PVT LTD, Indian Economy, Delhi

* Applicable for courses having practical component.

Session 2024-2025	
Part-A Introduction	
Subject	Economics
Semester	VI
Name of the Course	Indian Economy
Course Code	**B23-ECO-601**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	CC-6 MCC-11
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	N.A.

Course Learning Outcomes (CLO)	After completing this course, the learner will be able to:		
	• Understand the Indian economy's features, historical evolution, economic planning, and key indicators like GDP and inflation. • Recognize the role and challenges of agriculture, understand rural development issues, and evaluate policies like MGNREGA. • Grasp industrialization phases, services sector growth, government policies, and globalization's impact on industry and services. • Understand India's foreign trade structure, balance of payments components, trade agreements, Foreign Trade Policy, and globalization challenges and opportunities.		
	5*		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**		

<div align="center">

Part-B Contents of the Course

Instructions for Paper Setters

</div>

4. Nine Questions will be set in all and students will be required to attempt 5 questions.
5. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
6. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Introduction to Indian Economy :** Features of the Indian Economy, Historical Evolution of the Indian Economy: Pre-colonial, colonial, and post-independence phases, New Economic Policy, Economic Planning in India: Five Year Plans, Role of NITI Aayog. Key Economic Indicators: GDP, Saving and Investment, inflation, unemployment and poverty.	15
II	**Agriculture and Rural Development :** Role of Agriculture in the Indian Economy, Challenges of Indian Agriculture,, Green Revolution and its impact, Agriculture and Economic reforms . Concepts, Approaches and Strategies of Rural Development, Issues of poverty, unemployment, and infrastructure. Policies for Rural Development: MGNREGA, poverty alleviation programs and Pradhan Mantri Gram Sadak Yojana.	15

III	**Industry and Services Sector :** Role of Industry in the Indian Economy,, Process of Industrialization in India: Phases of industrial development, challenges faced, Government Policies for Industrial Development: Make in India, industrial corridors. The Services Sector: Growth, importance, and sub-sectors (IT, finance, tourism, etc.),. Globalization and its impact on Indian Industry and Services.	15
IV	**Foreign Trade and Globalization :** Growth and Structure of India's Foreign Trade, Balance of Payments: Components, factors affecting it, and its importance. Trade Agreements and Institutions: WTO, Regional Trade Agreements (SAARC, ASEAN). Foreign Trade Policy (FTP) of India: Objectives, initiatives, and recent changes. Challenges and Opportunities of Globalization for India: Trade barriers, protectionism, and WTO.	15
V*		

Suggested Evaluation Methods	

Internal Assessment: 30
  ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**
Class Participation   5
Seminar/Presentation/Assignment/Quiz/Class Test etc.   10
Mid Term Exam   15
  ➢ **Practicum**
Class Participation
Seminar/Demonstration/Viva Voce/Lab Records etc.
Mid Term Exam:
	End Term Examination:70
	Theory

Part-C Learning Resources

Recommended Books/E-Resources/LMS:
  • Dutt, G. & Mahajan, A. (2020). Dutt & Sundharam's Indian Economy. S. Chand Publishing, New Delhi.
  • Kapila, U. (2015). Indian Economy - Performance and Policies. Academic Foundation
  • Kapila, U. (2018). Indian Economy Since Independence. Academic Foundation.
  • Ministry of Finance (2020). Economic Survey. Government of India.
  • Mishra, S.K. & Puri, V.K. (2020).Indian Economy. Himalaya Publications, New Delhi.
  • Monthly Issues of Kurukshetra-A Journal on Rural Development.
  • Shergill, H.S. (2006). Diversification of cropping pattern: A Re-Examination. Institute for Development and Communication, Chandigarh
  • Biswas, P.K. & Das, P. (Eds.). (2019). Indian Economy: Reforms and Development. Springer.
  • Bhagwati, Jagdish (2004). In Defense of Globalization. Oxford University Press,

- New Delhi.
- Bhandari, Surendra (1998). WTO and Developing Countries. Deep & Deep Publications, New Delhi
- VK Global Publication PVT LTD, Indian Economy, Delhi

Session 2024-2025			
Part-A Introduction			
Subject	Economics		
Semester	VI		
Name of the Course	Economics of Labour		
Course Code	B23-ECO-602		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC /AEC/ VAC)	MCC-12		
Level of the course (As per Annexure-I)	300-399		
Pre-requisite for the course (if any)	None		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Define labor economics and its significance, and analyze historical developments in the field. • Understand the theory of labor supply and demand, including factors influencing individual decisions and market outcomes. • Evaluate wage determination mechanisms in different market structures and their impact on employment and wages. • Analyze alternative pay schemes, the wage structure, and factors contributing to wage differentials.		
	5*.		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 **Internal Assessment** **Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**		
Part-B Contents of the Course			
1. Nine Questions will be set in all and students will be required to attempt 5 questions. **2.** Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2			

marks spread over the entire syllabus (2*7=14marks).

3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	Labor Economics: Overview of labor economics: Definition, scope, and significance. Historical development of labor economics. Basic concepts and terminology: Population, Participation Rates. Labor Quality and Investing in Human Capital.	15
II	Theory of labor supply and demand: The Theory of Individual Labor Supply; Basic Model of The Work–Leisure Decision. The Demand for Labor; Short Run and Long Run demand for labour in Perfect and Imperfect Competitive Market. Elasticity of labor supply and demand. Wage Determination and the Allocation of Labor: Perfectly Competitive Labor Market, Wage and Employment Determination in Monopoly in the Product Market, Monopsony.	15
III	Alternative Pay Schemes and Labor Efficiency: Theory of Optimal Fringe Benefits, The Principal–Agent Problem, Efficiency Wage Payments. The Wage Structure: Perfect Competition And Homogeneous Workers And Jobs. Wage Differentials And Heterogeneous Workers And Jobs. Mobility, Migration, and Efficiency: Types, Determinates and Consequences of Migration.	15
IV	Analysis of Labour Market Institutions and Policies: Labour unions, collective bargaining, minimum wage laws, labor regulations. The Economic Impact of Unions: The Union Wage Advantage, Efficiency And Productivity, Firm Profitability, Distribution Of Earnings, Inflation, Unemployment, And Income Shares. Government policies and interventions in the labor market in India: Employment protection, unemployment benefits, social security schemes, labor market reforms, four labour codes. Critiques and debates surrounding labor market interventions.	15
V*		
	Suggested Evaluation Methods	
	Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)** Class Participation:5 Seminar/Presentation/Assignment/Quiz/Class Test etc.:10 Mid Term Exam:15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	**End Term Examination:70** Theory

Part-C Learning Resources	
Recommended Books/E-Resources/LMS:	

- Chakraborty, S. (2018), Labour Economics, Himalaya Publishing House Pvt. Ltd., India.

- McConnell, Campbell R., Brue, Stanley L., Macpherson, David A. (2013), Contemporary Labor Economics, Eleventh Edition, McGraw-Hill Education, 2 Penn Plaza, New York, NY 10121.

- Singh, Chandra Kant (2019), Labour Economics, Deshraj& Sons, India.

Session 2024-2025	
Part-A Introduction	
Subject	Economics
Semester	VI
Name of the Course	**Computer Applications in Economics**
Course Code	**B23-ECO-603**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-4
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Understand the fundamental components and characteristics of a computer, computer hardware components, software types, operating systems, and input/output devices essential for computer usage in economics. 2. Understand Microsoft Word's interface and navigation, document creation and formatting. They will also understand PowerPoint basics including slide creation, design themes, multimedia insertion, and presentation delivery techniques. 3. Understand the Excel interface, navigate worksheets efficiently, perform basic data entry and formatting tasks, apply sorting and filtering, use common functions and arithmetic operations, manage worksheets effectively 4 Recognize the significance of graphical representation in economics, identify appropriate economic data for visualization, understand various types of graphs and charts, and learn to prepare, customize, and interpret graphical representations effectively.
	5*. To prepare a file depicting their ability to understand MS Word, Power Point and MS Excel

Credits		Theory	Practical	Total
		03	1	04
Contact Hours		03	02	05
Max. Marks: 100 **Internal Assessment Marks: 20+10(P)** **End Term Exam Marks: 50+20(P)**	**Time: 3 Hrs**			

<table>
<tr><td colspan="3" align="center">Part-B Contents of the Course</td></tr>
<tr><td colspan="3" align="center">Instructions for Paper Setters</td></tr>
<tr><td colspan="3">
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
 2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 2 marks spread over the entire syllabus (2*5=10 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (10 marks each).
</td></tr>
<tr><td>Unit</td><td>Topics</td><td>Contact Hours</td></tr>
<tr><td>I</td><td>Fundamentals of Computer Systems and Software
Definition and Characteristics of a Computer, Overview of Computer Hardware and Software, Computer Hardware: Central Processing Unit (CPU), Motherboard, RAM, and ROM, Storage Devices: Hard Disk Drives (HDD), Solid State Drives (SSD), Input /Output Devices: Keyboard, Mouse, Monitor, Printer. Computer Software: System Software vs. Application Software, Operating Systems: Windows, macOS, Linux, Software Installation and Updates. Input and Output Devices: Keyboard and Mouse: Types and Functions, Monitors and Display Devices, Printers: Types and Printing Technologies</td><td>11</td></tr>
<tr><td>II</td><td>Microsoft Word and PowerPoint Essentials
Introduction to Microsoft Word: Interface and Navigation, Creating and Saving Documents, Text Formatting and Editing: Fonts, Styles, and Sizes, Paragraph Formatting, Bullets, Numbering, and Lists, Document Layout and Design: Page Layout, Margins, and Orientation, Headers and Footers, Inserting Images, Shapes, and Smart Art
Introduction to Power Point: Creating a New Presentation, Slide Layouts and Design Themes, Adding Content : Inserting Text, Images, and Multimedia, Formatting Slides and Objects, Slide Transitions and Animations : Applying Transitions, Adding Animations to Objects, Delivering the Presentation: Slide Show Settings.</td><td>11</td></tr>
<tr><td>III</td><td>Excel Fundamentals and Navigation
Excel Interface Overview : Ribbon, Tabs, and Quick Access Toolbar, Worksheets, Rows, Columns, and Cells, Navigating Excel : Scrolling, Zooming, and Selecting Cells, Moving and Copying Data, Entering Data: Typing and Editing Text and Numbers, Using AutoFill for Series and Patterns, Cell Formatting: Font, Color, and</td><td>11</td></tr>
</table>

	Borders Cell Styles and Themes, Sorting and Filtering Data : Sorting Data Alphabetically or Numerically, Applying and Clearing Filters , Common Functions :SUM, AVERAGE, MIN, MAX,COUNT,COUNTA, COUNTBLANK, Basic Arithmetic operations: Addition, Subtraction, Multiplication and Division, Managing Worksheets: Adding, Renaming, and Deleting Worksheets, Moving and Copying Worksheets, Saving, Opening, and Closing Workbooks.	
IV	**Graphical Representation in Economics** Importance of Graphical Presentation in Economics : Understanding the Role of Visuals in Economic Analysis, Benefits of Graphical Representation in Economic Communication, Types of Economic Data Suitable for Graphical Representation, Types of Graphs and Charts; Line Charts: Representing Time Series Data, Trends, and Comparisons, Bar and Column Charts: Comparing Categories, Quantities, and Changes Over Time, Pie and Donut Charts : Showing Proportions and Percentages, Scatter Plots: Displaying Relationships Between Two Variables, Histograms and Frequency Polygons: Visualizing Data Distribution and Frequency, Data Preparation for Graphs Cleaning and Formatting Data for Visualization, Customizing Graphs for Clarity : Adding Titles, Labels, Legends, and Annotations, Adjusting Colors, Styles, and Scales, Interpreting Graphical Representations	12
V*	Students should be able to run the commands of MS Word, PowerPoint and MS Excel mentioned in syllabus with their application in economics.	15

Suggested Evaluation Methods	

Internal Assessment: 30
  ➢ **Theory: 20 (All these activities will be covered under Tutorials. Approximate contact Hours =15**)
Class Participation :05
Seminar/Presentation/Assignment/Quiz/Class Test etc. :05
Mid Term Exam:10
  ➢ **Practicum:10**
Class Participation:
Seminar/Demonstration/Viva Voce/Lab Records etc.: 10
Mid Term Exam:
	End Term Examination:50 Theory
	
	Practicum: 20 Practical/Viva Voce/Lab Records.

Part-C Learning Resources

Recommended Books/E-Resources/LMS:
  • Beal, V. (2011). Computer Basics: A Beginner's Guide to Understanding How Computers Work (4th ed.). Course Technology.
  • Cole, M. (2016). Simplifying information graphics: A user's guide to making data

meaningful. O'Reilly Media, Inc.. (Chapter on Designing Effective Visuals)

- Few, S. (2009). Now you see it: How data visualization can transform your business. John Wiley & Sons. (Chapter on Power of Data Visualization)
- Huffaker, R. (2015). Presentation zen: Simple ideas on presenting with confidence. Pearson Education Limited. (Chapter on Using Visuals Effectively)
- Kurose, J. F., & Ross, K. W. (2017). Computer networking: A top-down approach (7th ed.). Pearson.
- Microsoft. Excel Help & Learning. https://support.microsoft.com/en-us/excel (Official Microsoft guide with tutorials and articles)
- Svetlana Chernyshova (2023). Microsoft Excel 2021 & 365 Step by Step. Microsoft Press. (Comprehensive guide with step-by-step instructions)
- Microsoft. PowerPoint Help & Learning. https://support.microsoft.com/en-us/office/powerpoint-for-windows-training-40e8c930-cb0b-40d8-82c4-bd53d3398787 (Official Microsoft guide with tutorials and articles)
- Gaskin, T. (2023). Microsoft PowerPoint 2021 & 365 Step by Step. Microsoft Press. (Comprehensive guide with step-by-step instructions)
- Microsoft. Word Help & Learning. https://support.microsoft.com/en-us/word (Official Microsoft guide with tutorials and articles)
- Gaskin, T. (2023). Microsoft Word 2021 & 365 Step by Step. Microsoft Press. (Comprehensive guide with step-by-step instructions)
- Morgan, M. R., & Morrison, G. R. (2019). Data analysis for decision makers. Cengage Learning US. (Chapter on Choosing the Right Chart)
- Patterson, D. A., & Hennessy, J. L. (2017). Computer organization and design: The hardware/software interface (5th ed.). Morgan Kaufmann.
- Stallings, W. (2018). Computer organization and architecture: Designing for performance (11th ed.). Pearson.
- Tanenbaum, A. S., & Austin, T. (2015). Structured computer organization (6th ed.). Pearson.

* Applicable for courses having practical component.

Session 2024-2025	
Part-A Introduction	
Subject	Economics
Semester	VI
Name of the Course	Economics of Insurance
Course Code	**B23-ECO-604**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-4
Level of the course (As per	300-399

	Annexure-I)	
Pre-requisite for the course (if any)	N.A.	

Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Understand the nature and scope of insurance, including the meaning of Insurance and its principles • Develop the understanding of risk and risk management • Evaluate the different types of insurance and selection of risk • Understand the insurance regulation and apply the concepts of Moral hazard and Adverse selection in practical situation.
	5*

Credits	Theory		Tutorial	Total
	03		1	04
Contact Hours	03		1	04

Max. Marks: 100 **Internal Assessment** **Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**

<div align="center">

Part-B Contents of the Course

Instructions for Paper Setters
</div>

1. Nine Questions will be set in all and students will be required to attempt 5 questions.

2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Rationale of Insurance** Meaning , Definition and Scope of Insurance; Evolution and Importance of Insurance; Nature, Functions, Elements, Principles and Fields of Insurance; major determinants of the demand for insurance	15
II	**Risk and Risk Management** Fundamentals of Uncertainty and Risk; Classification of Risk; Concepts of Risk Management; Elements of Risk Management- Risk Assessment, Risk Control, Risk Financing, Risk pooling and risk transfer in insurance	15
III	**Types of Insurance** Fundamentals of Life and Health Insurance- Functions of Life and Health Insurance, Plans of Life Insurance, Selection of Risks,	15

	Underwriting of Life and Health Insurance ; General Insurance - concept and types.	
IV	**Insurance Regulation** Asymmetric information and its consequences; Moral Hazard; Adverse selection; objectives, Theories of insurance Regulation; Effects of Insurance Regulation; Recent Trends in Insurance Regulation; Insurance Regulation and Development Authority.	15
V*		

Suggested Evaluation Methods	

Internal Assessment: 30
   ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**
     Class Participation   5
     Seminar/Presentation/Assignment/Quiz/Class Test etc.   10
     Mid Term Exam   15
   ➢ **Practicum**
     Class Participation
     Seminar/Demonstration/Viva Voce/Lab Records etc.
     Mid Term Exam:
	End Term Examination:70
	Theory

Part-C Learning Resources

Recommended Books/E-Resources/LMS:
    • Bhole, L.M., 1990, The Indian Financial System, Tata McGraw Hill, New Delhi.
    • Black, K.Jr and H.D. Skipper, 2000, Life and Health Insurance, Prentice Hall, N.J.
    • Bailey, R., 1999, Underwriting in life and insurance, LOMA, Atlanta.
    • Bickelhaupt, D.L., 1992, General Insurance, lrwin.lnc.Burr Bridge
    • Finsinger, J and M.V. Pauly (Eds), 1986, McGraw Hill's life Insurance, The American College, Blyn Mawr Pa.
    • Hedad, G.L., and S. Horn II, 1991, Essentials of Risk Management, VoL 1 , Insurance Institute of America.
    • Skipper, J.H.D. (Ed) 1988, International risk and insurance: An environmental managerial approach, Irwin McGraw Hill, Boston
    • Taehimo, K.B. and D.A. Linic, 1993, Planning for Retirement needs, The American Collge, Bryn, Mawn pa. 9. Palande, P.S., Shah, R.S and Lunawal, M.L., 1983, Insurance in India, Changing policies and emerging opportunities, Response Books, A division of Sage Publications India.
    • Arunajatesan S. & T. R. Viswanathan, Risk Management and Insurance, (2009) Macmillan Publishers Ltd.
    • Dorfman S. Mark (2012, 1987) Introduction to Risk Management and Insurance, Eighth Ed, Prentice-Hall.
    • Hampton John J. (1993) Essentials of Risk Management and Insurance,

- (1993), American Management Association (Amacom).
- S. Hun Seog (2010) The Economics of Risk and Insurance, Wiley-Blackwell
- P. Zweifel and R. Eisen (2012) Insurance Economics, Springer

<table>
<tr><td colspan="4" align="center">Session 2024-2025</td></tr>
<tr><td colspan="4" align="center">Part-A Introduction</td></tr>
<tr><td>Subject</td><td colspan="3">Economics</td></tr>
<tr><td>Semester</td><td colspan="3">VI</td></tr>
<tr><td>Name of the Course</td><td colspan="3">Gender Economics</td></tr>
<tr><td>Course Code</td><td colspan="3">B23-ECO-605</td></tr>
<tr><td>Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC</td><td colspan="3">DSE-5</td></tr>
<tr><td>Level of the course (As per Annexure-I)</td><td colspan="3">300-399</td></tr>
<tr><td>Pre-requisite for the course (if any)</td><td colspan="3">N.A.</td></tr>
<tr><td>Course Learning Outcomes (CLO)</td><td colspan="3">After completing this course, the learners will be able to:
1. Understand gender economics, historical perspectives, and various approaches like WID, WAD, and GAD. They'll also be familiar with gender-related development indices like GDI, GEM, and GGI.
2. Analyze women's economic contributions, understand valuation of women's work, factors affecting labor market entry, and key issues like wage disparity.
3. Interpret female population demography and understand gender differences in economic outcomes through various theories..
4. Grasp concepts of gender mainstreaming, gender audit, and gender budgeting. They'll also understand women's economic empowerment, sustainable development goals, and monitoring tools for gender-responsive policies</td></tr>
<tr><td></td><td colspan="3">5*.</td></tr>
<tr><td>Credits</td><td>Theory</td><td>Tutorial</td><td>Total</td></tr>
<tr><td></td><td align="center">03</td><td>1</td><td>04</td></tr>
<tr><td>Contact Hours</td><td align="center">03</td><td>1</td><td>04</td></tr>
<tr><td>Max. Marks: 100
Internal Assessment Marks: 30
End Term Exam Marks: 70</td><td colspan="3">Time: 3 Hrs</td></tr>
<tr><td colspan="4" align="center">Part-B Contents of the Course</td></tr>
<tr><td colspan="4" align="center">Instructions for Paper Setters</td></tr>
</table>

4. Nine Questions will be set in all and students will be required to attempt 5 questions.
5. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
6. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Foundations of Gender Economics** Definition, Scope, and Importance of Gender Economics ,Historical Perspectives on Gender and Economics, Difference between Gender and Sex, Gender Issues in Economic Theory, Approaches: Women in Development (WID), Women and Development (WAD), Gender and Development(GAD),Gender-Related Development Indices: Gender-Related Development Index (GDI), Gender Empowerment Measure (GEM), Global Gender Gap Index (GGI)	15
II	**Women's Economic Role and Work** Women's Contribution to National Income and Growth, Concept and Analysis of Women's Work: Valuation of Productive and Unproductive Work, Visible and Invisible Work, Paid and Unpaid Work, Economically Productive and Socially Productive Work, Methodological Issues in Measurement of Women's Work and Contribution to Income. Factors Affecting Female Entry in the Labour Market, Labour Market Issues: Occupational Segregation, Wage Disparity and Feminization.	15
III	**Demographics and Gendered Economic Outcomes** Demography of female population: Age structure, mortality rates, Fertility rates and sex ratio. Gender differences in economic outcomes : Human Capital Theory, Bargaining Theory, Time Use Theory, Intersectionality Theory and Institutional Theory	15
IV	**Gender Integration in Policy and Development** Gender mainstreaming in policy-making and implementation, Gender Audit and Gender Budgeting, Women in Planning and Social Policy, Women's Economic Empowerment Programs (Micro finance and Skill Training), Role of women in sustainable and green economy sectors, Gender-sensitive design of social protection schemes, Gender equality as a sustainable development goal , Role of International Organizations in Promoting Gender Equality, Paradigm shift from women well being to Women's Empowerment, Importance of monitoring and evaluation in gender-responsive policymaking, Key indicators and tools for evaluating gender-responsive policies.	15
V*		
Suggested Evaluation Methods	

Internal Assessment: 30		End Term Examination:70 Theory
➤ Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)		
Class Participation	5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	10	
Mid Term Exam	15	
➤ Practicum		
Class Participation		
Seminar/Demonstration/Viva Voce/Lab Records etc.		
Mid Term Exam:		

Part-C Learning Resources

Recommended Books/E-Resources/LMS:

- Acker, J. (2006). Gender and inequality: Lessons from sociology. Pine Forge Press.
- Alkire, S., & Koch, I. (2008). Gender and the Millennium Development Goals: A special report. Oxford University Press.
- Arulappan, T. (2001). The economics of gender. Oxford University Press.
- Asian Development Bank. (2012). Handbook for conducting gender audits. UN Women. (2008). Gender budgeting: Making it work for women's empowerment.
- Becker, G. S. (1991). A treatise on human capital. University of Chicago Press. (Human Capital Theory)
- Beneria, L., & Molyneux, M. (2003). Gender and development: Theories, practices, and policies. Routledge.
- Bergmann, B. (2003). In the shadow of man: The history of women in the economic theory. Routledge.
- Bittman, M., England, P., Folbre, N., & Meyers, C. (2003). The divided household: Gender and time use in the United States. Russell Sage Foundation. (Time Use Theory)
- Charles, M., & Berrin, J. (2013). Gender and development. Routledge.
- Crenshaw, K. (1989). Defining intersectionality in context. University of Chicago Legal Forum, 140(1), 140-149. (Intersectionality Theory)
- Elson, D. (1999). In gels like money: Towards a feminist analysis of monetary valuation. Routledge.
- Esping-Andersen, G. (2009). The welfare state for the 21st century. Oxford University Press. (Chapter on Gender and Social Protection)
- Folbre, N. (1994). Who cares for the kids? Gender and the welfare state. Cornell University Press.
- Goetz, A. M., & Chaudhuri, N. (2014). Women and development: Concepts, critiques, and current trends. Zed Books.
- International Labour Organization. (2019). Promoting decent work for women: A toolkit.
- Jaffee, D. (2014). Feminist economics. Routledge. (Chapter on Labor Market Theories) Sen, A. (1990). Gender and cooperative conflicts. WIDER Working Papers
- Lundberg, S., & Pollak, R. A. (1993). Bargaining and distribution within the

household. Journal of Economic Literature, 31(2), 815-827. (Bargaining Theory)

- Nelson, J. A. (2005). Feminists, institutions, and social change. University of Chicago Press. (Institutional Theory)
- OECD Development Centre. (2016). Gender equality policies: A global review
- OECD Development Centre. (2006). Gender mainstreaming in practice: A toolkit.
- Razavi, S. (2009). Gender and social policy. Routledge.
  Smyth, I., & Rai, M. (2017). Gender and development. Routledge. (Chapter on Gender and Social Policy)
- Sen, A. (1990). Gender and cooperative conflicts. WIDER Working Papers
- UN Women. (2021). Women's leadership and participation in the green economy. UNEP. (2020). Gender and the environment handbook: A guide to gender-responsive environmental policy, plans and programs.
- United Nations Development Programme. (2023). Human development report 2023. https://hdr.undp.org/reports-and-publications/towards-2023-human-development-report
- United Nations Economic and Social Council. (2000). Integrating gender into economic and social policies: A practical guide.
- United Nations Population Fund. (2021). State of World Population 2021: Women's bodies, women's choices.
- United Nations. (2015). Transforming our world: The 2030 Agenda for Sustainable Development. https://sdgs.un.org/2030agenda (Goal 5: Gender Equality)
- World Bank. (2008). Gender and economics. https://www.worldbank.org/en/topic/gender/overview
- World Bank. (2012). World Development Report 2012: Gender Equality and Development.
- World Bank. (2018). Women, Business and the Law 2018. https://thedocs.worldbank.org/en/doc/102741522965756861-0050022018/original/WBLKeyFindingsWebFINAL.pdf

Session 2024-2025	
Part-A Introduction	
Subject	Economics
Semester	VI
Name of the Course	Welfare Economics
Course Code	**B23-ECO-606**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-5
Level of the course (As per Annexure-I)	N.A
Pre-requisite for the course	N.A.

(if any)	
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. The course will introduce various concepts of Welfare Economics. 2. Identify the causes inhibiting attainment of maximize social welfare 3. Students would be able to evaluate the welfare effects of policy changes in a coherent way.

Credits	Theory	Tutorial	Total
	03	01	04
Contact Hours Per Week	03	01	04

Max. Marks: 100 **Internal Assessment** **Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hours**

Part-B Contents of the Course
Instructions for Paper Setters

- Nine Questions will be set in all and students will be required to attempt 5 questions.
- Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
- For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	Meaning and Scope of Welfare Economics; Benthamite Approach to Aggregate Welfare; Adam Smith's views on Economic Welfare; Assumption of Uniform Income – Utility Function of Individuals; Questions of Income Distribution	15
II	Marshallian Welfare Economics; PigovianWelfare Economics; Consumer's Surplus-Measurement and Criticism. Hicksian Consumer Surplus- Concept of Consumer's Surplus, Principle of Compensating Variation; Consumer's Surplus and Tax-Bounty Analysis.	15
III	Pareto optimality – Optimum exchange conditions, The production optimum, The consumption optimum, Concept of contract curve; Top level optimum; Kaldor and Hicks Compensation Principle; The Scitovsky double criterion.	15

IV	Bergson's social welfare function; Marginal cost pricing; Cost-benefit analysis; The Role of The State to maximize Social Welfare.	15
V*		

Suggested Evaluation Methods

Internal Assessment: 30		End Term Examination:70 Theory
➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)**		
Class Participation	5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	10	
Mid Term Exam	15	
➢ **Practicum**		
Class Participation		
Seminar/Demonstration/Viva Voce/Lab Records etc.		
Mid Term Exam:		

Part-C Learning Resources

Recommended Books/E-Resources/LMS:
- Baumol, W.J. (ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd., U.K.
- Broadway, R.W. and N. Bruce (1984), Welfare Economics, Basil Blackwell, Oxford.
- Pigou, A.C. (1962), The Economics of Welfare (4Edition), Macmillan.
- Hicks, J.R. (1956), A Revision of Demand Theory, Clarendon Press, Oxford.
- Little, LM.D. (1949), The Foundations of Welfare Economics, Oxford Economic Papers,
- Ahuja, H.L. (2016), Advanced Economic Theory, S.Chand Publications, Delhi

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	VI
Name of the Course	Fundamentals of Economic Development
Course Code	B25-ECO-607
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	CC-M6
Level of the course (As per Annexure-I)	300-399
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Appreciate the concepts of growth and development, along with the various measures of economic development.

	2. Analyze various resources as well as challengesin context of economic development. 3. Construct and interpret the various indices for measuring economic development. 4. Understand the process of economic growth as explained by various economists, andcomprehend the major development strategies.		
	5*.		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70	Time: 3 Hrs		

<table>
<tr><td colspan="4" align="center">Part-B Contents of the Course</td></tr>
<tr><td colspan="4" align="center">Instructions for Paper Setters</td></tr>
<tr><td colspan="4">
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).
</td></tr>
</table>

Unit	Topics	Contact Hours
I	**Concepts of Economic Development** Economic Growth and Economic Development: Concept and Comparison; Measurement of Economic Development: National Income,Per Capita Income, and Basic Needs Approach.	15
II	**Determinants and Challenges of Economic Development:** Economic and non-economic resources for Economic Development; Poverty: Concept and measurement, vicious circle of poverty, Economic inequality: Concept and measurement (Gini Coefficient).	15
III	**Indices For Measuring Economic Development** Physical Quality of Life Index (PQLI), Human Development Index (HDI), Gender Development Index (GDI), and World Happiness Index.	15
IV	**Basic Theories and Strategies** Contribution of Adam Smith, Ricardo, Karl Marx and Schumpeter; Balanced and Unbalanced Growth.	15
V*		

Suggested Evaluation Methods	
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials.**	**End Term Examination:7**

Approximate contact Hours =12)		**0**
Class Participation	:5	Theory
Seminar/Presentation/Assignment/Quiz/Class Test etc.	:10	
Mid Term Exam	:15	
➢ **Practicum**		
Class Participation		
Seminar/Demonstration/Viva Voce/Lab Records etc.		
Mid Term Exam:		

Part-C Learning Resources
Recommended Books/E-Resources/LMS:

- Adelman, I, (1961), Theories of Economic Growth and Development, Stanford University Press, Stanford.
- Chakravarti, S. (1982), Alternative Approaches to the Theory of EconomicGrowth, Oxford University Press, New Delhi.
- Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
- Higgins, B.(1959), Economic Development, W.W. Norton, New York.
- Kindleberger, C. P. (1977), Economic Development, (3rd Edition), McGrawHill, New York.
- Meier, G.M. and J.E. Rauch (2005), Leading Issues in Economic Development, (8th Edition), Oxford University Press, New Delhi.
- Todaro, M.P. and S.C. Smith (2003), (8th Edition), Economic Development, Pearson Education, Delhi.
- Thirlwal, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
- Mishra, S.K. and V.K. Puri 'Economics of Development and Planning. (Latest Edition)
- VK Global Publication PVT LTD, Development Economics, Delhi

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	VII
Name of the Course	Mathematics For Economics
Course Code	**B23-ECO-701**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/VAC)	CC-H1
Level of the course (As per Annexure-I)	400-499
Pre-requisite for the course (if any)	N.A.

Course Learning Outcomes (CLO)	After completing this course, the learner will be able to:
	• Understand the various rules of matrix algebra andapply them in solving simultaneous equations models including input-output model.
	• Appreciate the techniques of differential as well as

	integral calculus and apply these in analyzing various micro economic concepts.
	• Solve the differential and difference equations and estimate as well as interpret the time path of variouseconomic variables
	• Apply the techniques of linear programming as well as game theory to analyze the optimizingbehavior of economic agents.

	5*		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04

Max. Marks: 100	**Time: 3 Hrs**
Internal Assessment Marks: 30	
End Term Exam Marks: 70	

<div align="center">

Part-B Contents of the Course

Instructions for Paper Setters

</div>

7. Nine Questions will be set in all and students will be required to attempt 5 questions.
8. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
9. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Matrix Algebra and Its Applications** Concepts of Matrix and Determinant; Simple operations on matrices; Matrix inversion and rank of matrix; Solution of simultaneous equations through Cramer's rule and Matrix inverse method; Introduction to input-output analysis.	15
II	**Differential and Integral Calculus** Rules of differentiation; Applications and interpretations of simple and partial derivatives; Problems of maxima and minima in single and multivariable functions; Unconstrained and constrained optimization in simple economic problems. Concept and rules of integration; Application to consumer's and producer's surplus.	15

III	**Differential Equations and Difference Equations** Differential equations – Form and Solution of linear differential equations; Applications in Micro and Macro Economic models. Difference equations – Solution of first order and second order difference equations; Applications in trade cycle models, growth models and lagged market equilibrium models.	15
IV	**Linear Programming and Game Theory** Linear programming – Basic concepts, Nature of feasible, basic and optimal solution; Solution of linear programming problem through graphical and simplex method.	15
	Game theory – Concept of a game; Two-person Zero-sum game; Value of a game; Strategies- simple and mixed; Dominance rule; Solution of a game by linear programming.	
V*		
Suggested Evaluation Methods	

Internal Assessment: 30		End Term Examination:70 Theory
➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**		
Class Participation	5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	10	
Mid Term Exam	15	
➢ **Practicum**		
Class Participation		
Seminar/Demonstration/Viva Voce/Lab Records etc.		
Mid Term Exam:		
Part-C Learning Resources		

Recommended Books/E-Resources/LMS:

- Aggarwal, D. R. (2018). Quantitative methods. Vrinda Publications.
- Allen, R.G.D. (2002). Mathematical analysis for economists. Macmillan Press and ELBS, London.
- Black, J.,& Bradley, J.F. (1973). Essential mathematics for economists. John Wiley and Sons.
- Chiang, A.C.(2006). Fundamental methods of mathematical economics. McGraw Hill, New York.
- Chiang, A.C. (1999). Elements of dynamic optimization. Waveland Press Inc., Long Grove, Illinois.
- Chung, J.W. (1994). Utility and production: Theory and applications. Basil Blackwell, London.
- Joshi, R. C. (2008). Basic mathematics for economists. New Academic Publishing.
- Leontief, W. W. (1936). Quantitative input-output relations in the economic systems of the United States. Review of Economics and Statistics, 18, 105-125.
- Mehta, B. C.,&Madnani, G. M. K. (2018). Mathematics for economists. Sultan Chand & Sons.
- Miller, R.E.,& Blair, P.D. (1985). Input-Output analysis: Foundations and extensions. Prentice-Hall, Englewood Cliffs, New Jersey.
- Mouhammed, Adil H. (2004). Quantitative methods for business and economics. PHI, New Delhi.
- Simon, Carl P., &Blume, Lawrence (1994). Mathematics for economists. W. W. Norton & Company.
- Sydsaeter,K.,& Hammond, Peter J. (1995). Mathematics for economic analysis. Prentice Hall.
- Taha, Hamdy A. (2001). Operations research: An introduction. Pearson Education.
- Varian, H. (2006). Microeconomic analysis. W.W. Norton, New York.
- Vohra, N.D. (2008). Quantitative techniques in management. Tata McGraw Hill.

- Yamane, T. (1973). Mathematics for economists. PHI.
- VK Global Publication PVT LTD, Mathematics for Economists, Delhi

Session 2025-2026			
Part-A Introduction			
Subject	Economics		
Semester	VII		
Name of the Course	International Economics		
Course Code	**B23-ECO-702**		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	CC-H2		
Level of the course (As per Annexure-I)	400-499		
Pre-requisite for the course (if any)	N.A.		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to 1. Understand thebasic economic concepts of trade theory. 2. take rational decisions in Issues related international economics. 3. Examine instruments and consequences of trade policy measures—including tariffs and quantitative restrictions; 4. Understand international financial markets and the macroeconomics of open economies; balance of payments and the trade balance; exchange rates and the foreign exchange management		
	5*.		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**		
Part-B Contents of the Course			

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type

questions of 2 marks spread over the entire syllabus (2*7=14marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	Nature and scope of International Economics Difference between International and Inter-regional trade, Importance of International trade, Classical and Modern theory of international trade, Leontief paradox	15
II	Terms of Trade: Meaning, Types and Factors affecting terms of trade Theory of Reciprocal demand of terms of trade (Offer Curve Analysis) Concept of Gains from Trade: Static and Dynamic gains Forms of protection: Tariffs and Quota (Meaning, Types and effects under partial and general equilibrium) Other non-tariff barriers	15
III	Balance of Trade and Balance of Payment: concepts and components Equilibrium and the Disequilibrium in balance of payment, various measures to correct deficit in balance of payment Exchange rate: Meaning of Fixed and Flexible exchange rate Concepts of devaluation and depreciation of currency Effects of exchange rate changes on domestic prices History of International Monetary system introduction to Euro currency market	15
IV	International Organizations: IMF: Role and Functions, World Trade Organization(main features, TRIPS, TRIMS), WTO and India Recent changes in the direction, composition and BoP of India's foreign trade, Recent foreign trade policy, Concepts of Full and Partial Convertibility of Rupee, FEMA, FDI in India	15
V*		
Suggested Evaluation Methods		

Suggested Evaluation Methods	
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)** Class Participation	**End Term Examination: 70** Theory

:5
Seminar/Presentation/Assignment/Quiz/Class Test etc.
:10
Mid Term Exam
:15
➤ **Practicum**
  Class Participation
  Seminar/Demonstration/Viva Voce/Lab Records etc.
  Mid Term Exam:	

Part-C Learning Resources

Recommended Books
  • Dominick Salvatore, International Economics: Trade and Finance, John Wiley International Student Edition, 10th edition, 2011.
  • Francis Cherunilam, International Economics, McGraw Hill Education; 5th edition (1 July 2017)
  • Francis Cherunilam International Trade and Export Management, Himalaya Publishing House (1 January 2019)
  • K.C. Rana& K.N. Verma , International Economics Vishal Publishing Co.; 5th (Revised) edition
  • VK Global Publication PVT LTD, International Economics, Delhi

 * Applicable for courses having practical component.

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	VII
Name of the Course	Public Economics
Course Code	**B23-ECO-703**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/VAC)	CC-H3
Level of the course (As per Annexure-I)	400-499
Pre-requisite for the course (if any)	N.A.

Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Understand the concept of efficiency along with various solutions of market failure. • Comprehend the welfare distribution aspects in context of public goods besides grasping the preference revelation mechanisms. • Understand the economic implications of various taxes along with their positive as well as normative analysis, and thus become able to design an efficient and equitable taxation system. • Apply economic perspectives on activities of the government sector to become well-informed and engaged participants (citizens, voters, politicians and/or civil servants) in society.		
	5*		

Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04

Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70	Time: 3 Hrs

Part-B Contents of the Course

Instructions for Paper Setters

- Nine Questions will be set in all and students will be required to attempt 5 questions.
- Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
- For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**The Public Economy** Exchange Economy, Production Economy and Efficiency; Asymmetric Information and market Failure; Externalities - Negotiation, Permit trading, Common property Resources; Rent Seeking; Efficiency Aspects of Public Enterprises - Marginal cost pricing, Peak Load Pricing, Theory of Second Best.	15
II	**Theory of Public Goods** Efficient Provision of Public Goods; Bowen-Lindahl Model; Samuelson Model; Nash equilibrium Approach; Clarke Mechanism; Lindahl-Wicksell Mechanism; Theory of Club Goods; Global Public Goods.	15
III	**Analysis of Taxation** Incentive Effects of Taxation on Labour Supply, Savings, and Risk Taking; Tax Incidence – Partial and General Equilibrium Analysis; Excess Burden of Tax and its Measurement; Efficiency and Equity	15

	Principles of Taxation; Optimal Commodity Tax; Optimal Income Tax.	
IV	**Economics of Public Choice** Rational Voter Hypothesis; Characteristics of Majority Voting Rule; Bowen-Black Model; Buchanan and Tullock Model; Arrow's Impossibility Theorem; Downs Model; Bureaucratic Behaviour: Niskanen Model, Tullock Model.	15
V*		

Suggested Evaluation Methods	
Internal Assessment: 30 ➥ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)** Class Participation 5 Seminar/Presentation/Assignment/Quiz/Class Test etc. 10 Mid Term Exam 15 ➥ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	**End Term Examination:70** Theory

Part-C Learning Resources

Recommended Books/E-Resources/LMS:

- Akerlof, G. (1970). The market for `Lemons': Quality uncertainty and the market mechanism. Quarterly Journal of Economics, 84(3), 488-500.
- Bergstrom, T., Blume, L. & Varian, H. (1986). On the Private Provision of Public Goods. Journal of Public Economics, 29, 25-49.
- Boadway, Robin (1984). Public sector economics. Cambridge, Winthrop Publications.
- Bowen, H.R. (1943). The interpretation of voting in the allocation of economic resources. The Quarterly Journal of Economics, 58(1), 27-48.
- Buchanan, J. &Tullock, G. (1962). The calculus of consent. Ann Arbor Paperbacks.
- Clarke, E.H. (1971). Multipart Pricing of Public Goods. Public Choice, 11, Rand McNally.
- Coase, R. (1960). The problem of social cost. Journal of Law and Economics, 3, 1-44.
- Cullis, John & Jones, Philip (2009). Public finance and public choice: Analytical Perspectives. Oxford University Press.
- Den Doel, Hans Van &Velthoven, Ben Van (1993). Democracy and welfare economics. Cambridge University Press.
- Downs, Anthony (1957). An economic theory of democracy. Harper & Row Publishers, New York.
- Foley, D.K. (1970). Lindahl's solution and the core of an economy with public goods. Econometrica, 38(1), 66-72.
- Hackelman, J.C. (2004). Readings in public choice economics. University of Michigan Press.
- Hindricks, J. & Myles, G.D. (2013). Intermediate public economics. The MIT Press.
- Ihori, Toshihiro (2016). Principles of public finance. Springer.

- Jha, Raghbendra (1998). Modern public economics. Routledge.
- Lipsey, R.G. & Lancaster, K. (1956). The general theory of second best. Review of Economic Studies, 24, 11-32.
- McNutt, P.A. (2002). The economics of public choice. Edward Elgar.
- Mirrlees J. (1971). An Exploration in the Theory of Optimum Income Taxation.Review of Economic Studies, 38(2), 175-208.
- Niskanen, W. A. (1971).Bureaucracy and representative government. Aldine-Atherton,Chicago.
- Rosen, H. S. & Gayer, T. (2014). Public finance. McGraw Hill.
- Samuelson, P. A. (1954). The pure theory of public expenditure. Review of Economics and Statistics, 36(4), 387-389.
- Samuelson, P. A. (1955). Diagrammatic exposition of a theory of public expenditure. Review of Economics and Statistics, 37(4), 350-356.
- Tiebout, C.M. (1956). A pure theory of local expenditures. Journal of Public Economics, 64, 416-424.
- VK Global Publication PVT LTD, Public Finance,Delhi

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	VII
Name of the Course	Introduction to Econometrics
Course Code	B23-ECO-704
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-6
Level of the course (As per Annexure-I)	400-499
Pre-requisite for the course (if any)	N.A.

Course Learning Outcomes (CLO)	After completing this course, the learner will be able to:
	1. Understand the definition, scope, and importance of econometrics, differentiate types of data and probability distributions, and apply Simple Linear Regression using Ordinary Least Squares (OLS) estimation methods.
	2. Evaluate estimator properties, apply the Gauss-Markov Theorem, conduct significance tests with t and F tests, assess model goodness-of-fit, and understand various functional forms of regression models..
	3. Grasp the concept of multiple linear regressions, perform estimation and interpretation of results, and identify and address issues like multicollinearity, heteroscedasticity, and autocorrelation in OLS assumptions.
	4. Create and use dummy variables, avoid the Dummy Variable Trap, They'll also be familiar with LPM, Logit, Probit Models, and Fixed Effects model estimation using the LSDV method .
	5*.

Credits	Theory		Practical	Total
	03		1	4
Contact Hours	03		2	5

Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**

Part-B Contents of the Course
Instructions for Paper Setters

1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Introduction to Econometrics:** Definition scope, Methodology and importance of econometrics, Types of Data; Time Series data, Cross Section Data and Panel Data. Probability distributions; normal and t-distribution, Hypothesis testing and confidence intervals. Simple Linear Regression: Simple Linear Regression; Definition and assumptions, Estimation methods; Ordinary Least Squares (OLS),	12
II	**Estimation, Significance Testing, and Model Evaluation in Simple Regression :** Desirable properties of an estimator, Gauss Markov Theorem, Test for the significance of parameter estimates (t-test and F-test), Goodness-of-fit and model evaluation, Functional forms of Regression Models	11

III	**Multiple Linear Regression and Violation of Assumptions:** Multiple Linear Regression Model ; Definition and basic concept of multiple regression, Estimation and Interpretation; Causes and consequences of violation of OLS assumptions: Multicollinearity, Heteroscedasticity, and Autocorrelation.	11
IV	**Dummy Variables and Fixed Effects Models:** Definition and construction of dummy variables Use of dummy variables to represent categorical variables, reference category and its interpretation, Applications of dummy variables in Economics, Dummy Variable Trap, Uses of Dummy variable for testing structural change, seasonal analysis and interaction effect. LPM, Logit and Probit Models. Fixed effects model estimation by LSDV method.	11
V*	- Estimation of OLS Model and fitting regression line - Testing of Parameters - Testing the significance of overall equation - Detection and removal of multicolinearity-1 - Detection and removal of multicolinearity-2 - Detection and removal of hetereoscekdasticity-1 - Detection and removal of hetereoscekdasticity-2 - Detection and removal of autocorrelation - Dummy Variable applications-1 - Dummy Variable applications-2 - Dummy Variable applications-3 - Dummy Variable applications-4 - Dummy Variable applications-5	15

Suggested Evaluation Methods

Internal Assessment: 30	End Term Examination:70
➤ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)** Class Participation 5 Seminar/Presentation/Assignment/Quiz/Class Test etc. 5 Mid Term Exam 10 ➤ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc.: 10 Mid Term Exam:	Theory :50 Practicum/ Viva Voce/Lab Records: 20

- Baltagi, B.H. (1988).Econometrics. Springer, New York.
- Goldberger, A.S. (1998).Introductory Econometrics. OxfordUniversity Press, New York.
- Gujarati, D.N. (1995).Basic Econometrics. McGraw Hill, New Delhi.
- Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications.

Prentice Hall Englewood Cliffs, New Jersey.
- Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York.
- Koutsoyiannis, A. (1977).Theory of Econometrics. The Macmillan Press Ltd. London.
- Maddala G.S. (Ed.) (1993).Econometric Methods and application. Aldershot U.K.
- Madnani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.
- Pindyck R.S. & Rubinfield, D.L. (1976). Econometric Models and Economic Forecasts. McGraw Hill Kogakusha Tokyo.

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	VII
Name of the Course	Growth Models in Economics
Course Code	**B23-ECO-705**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-6
Level of the course (As per Annexure-I)	400-499
Pre-requisite for the course (if any)	N.A.

Course Learning Outcomes (CLO)	After completing this course, the learner will be able to:		
	1. Understand the basic concepts and tools used in growth models. 2. Be aware of the perspectives of various economists on growth process and able to identify the main factors responsible for economic growth. 3. Understand the models dealing with the problem of instability of equilibrium growth and its solution as well as the model of optimum growth. 4. Figure out the Cambridge models as well as a basic model of endogenous growth.		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**		

Part-B Contents of the Course
Instructions for Paper Setters
1. Nine Questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Fundamentals of Growth Models** Theories and Models; Positive and Normative Theories; Concepts of Growth Rate, and Steady Growth; Purposes of Growth Models; Types of growth theory; Role of assumptions. Introduction to Economic Growth and Development: Concepts and Indicators; Importance of Growth, World Income Distribution, History of Modern Growth Theory; Growth Accounting.	15
II	**General Approaches to Economic Growth** Classical Theories: Adam Smith and David Ricardo;	

	Marxian Theory of Capitalistic Development; Rostow Doctrine, Chenery's Pattern of Structural Change; The Schumpeterian theory, Dualistic Theories.	
		15
III	**Growth Models – I** Instability of Equilibrium: Harrod - Domar Model; Solow's Neo-Classical Growth Model; Duesenberry's Optimum Growth Model; Models of Technical Change; Structural Change Models (Lewis), Fei-Ranis Theory.	15
IV	**Growth Models – II** Cambridge Models: Joan Robinson and Kaldor; Romer's Endogenous Growth Model; Convergence and Divergence controversy; Lucas Model, Kremer's O-Ring theory of Economic Development.	
		15
V*		

Suggested Evaluation Methods	
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)** Class Participation 5 Seminar/Presentation/Assignment/Quiz/Class Test etc.:10 Mid Term Exam 15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	**End Term Examination:70** Theory

Part-C Learning Resources

Recommended Books/E-Resources/LMS:
● Jones, H.G. (1975). An introduction to modern theories of economic growth. London: Thomas Nelson Ltd.
● Puri, V.K. & Mishra, S.K. (2020). Economics of development and planning: Theory and practice. New Delhi: Himalaya Publishing House
● Adelman, I. (1961). Theories of economic growth and development. California: Stanford University Press.
● Vashisth, B.K. (1991). Aarthikvikasevamniyojan. Chandigarh: Haryana Sahitya Academy.
● Jones, C.I. &Vollrath, D. (2013). Introduction to economic growth. USA: W. W. Norton & Company.

- Puri, V.K. & Mishra, S.K. (2020). Economics of development and planning: Theory and practice. New Delhi: Himalaya Publishing House.
- Meier, G.M. & Rauch, J.E. (2010). Leading issues in economic development. New Delhi: Oxford University Press.
- Todaro, M.P. & Smith, S.C. (2020). Economic development. London: Pearson Education.
- Wayne Nafziger, E. (2006). Economic development. New York: Cambridge University Press.
- Barro R.J. & Sala-i-Martin (2004). Economic Growth. New Delhi; Prentice –Hall of India private limited.
- VK Global Publication PVT LTD, Development Economics, Delhi

<table>
<tr><td colspan="2" align="center">Session 2025-2026</td></tr>
<tr><td colspan="2" align="center">Part-A Introduction</td></tr>
<tr><td>Subject</td><td>Economics</td></tr>
<tr><td>Semester</td><td>VII</td></tr>
<tr><td>Name of the Course</td><td>Economic Data Analysis</td></tr>
<tr><td>Course Code</td><td>B23-ECO-706</td></tr>
<tr><td>Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC</td><td>PC-H1</td></tr>
<tr><td>Level of the course (Annexure-I)</td><td>400-499</td></tr>
<tr><td>Pre-requisite for the course (if any)</td><td>Basic Statistics</td></tr>
<tr><td>Course Learning Outcomes (CLO)</td><td>After completing this course, the learner will be able to:
1. Understand the various types of data and measurement scales relevant to economics.
2. Develop and test economic hypotheses by z, t, and Chi-square test.
3. Apply the correlation, regression and ANOVA to analyse the economic data.
4. Use ICT based software and develop research paper writing skills.
5*. Analyze Economic Data</td></tr>
</table>

Credits	Theory	Practical	Total
	0	4	04
Contact Hours	0	8	08

<table>
<tr><td>Max. Marks: 100
Internal Assessment Marks:20+10*
End Term Exam Marks: 50+20*</td><td>Time: 3 Hrs</td></tr>
</table>

<table>
<tr><td align="center">Part-B Contents of the Course</td></tr>
<tr><td align="center">Instructions for Paper Setters</td></tr>
<tr><td>1. Five Data Analysis Problems will be given in all by the examiner on the spot in the lab and the students will be required to analyze four of them.
2. At least one problem from each unit shall be given.
3. Each problems shall be of 10 marks.</td></tr>
</table>

Unit	Topics	Contact Hours
I	**Types of data-** cross section data, time series data, panel data; Scales of data (nominal, ordinal, interval, ratio), **Presentation of Data:** Bar graph, Pie chart, Line graph, Scatter Plot, Frequency distributions, Histograms, Frequency Polygons, Relative-Frequency Distribution, Cumulative Frequency Distribution (Ogives and Percentage Ogives), Frequency Curves, **Summarising the Data**: central tendency (mean, mode, median), Dispersion (Range, Variance,	30

	Standard Deviation), Skewness, Kurtosis.	
II	**Sampling Techniques**: Random and Non Random Sampling (types and limitations) **Sampling Distributions**: Sampling distributions of mean, Proportions, Differences, and Sums; Standard Error. **Probability Distribution**: Random Variables, Expected values, Characteristics and uses of Binomial, Poisson and Normal distributions	30
III	**Testing of hypothesis**: Hypothesis testing Procedure; One Sample tests and Two Sample Tests (Z and t tests); Chi-Square test; One and Two tail tests; Confidence interval; level significance; p-value. **Correlation Analysis**: Simple, Partial and Multiple correlations; Rank Correlation; Testing the Significance of Correlation Coefficient.	30
IV	**Regression**: Meaning, Assumptions and applications of Regression Analysis; Simple Linear Regression Model; Relation between regression and correlation coefficients, **ANOVA:** Analysis of Variance (Basic Concepts); One way and Two ANOVA and its Applications in Economics, Similarities and differences between Regression and ANOVA; R-square.	30
Suggested Evaluation Methods		
Internal Assessment Practicum : 30 Class Participation 5 Seminar/Presentation/Assignment/Quiz/Class Test etc.:10 Mid Term Exam:15	**Practicum: 70**	
Part-C Learning Resources		
Recommended Books/E-Resources/LMS: - Gupta S.C. (1993), Fundamentals of Statistics, S. Chand & Sons New Delhi - Spiegel, Murry R (1992), Theory and problems of Statistics ,Schaum's outline series, McGraw Hill. - George Darren (2011): SPSS for Windows Step by Step: A simple Guide and Reference, Pearson Education, Prentice Hall.		

- A. Koutsoyiannis (2004), Theory of Econometric, Palgrave Macmillan.
- VK Global Publication PVT LTD, Basic Statistics for Economics, Delhi

* Applicable for courses having practical component.

Session 2024-2025	
Part-A Introduction	
Subject	**Economics**
Semester	VII
Name of the Course	**Basics of Demography**
Course Code	B23-ECO-707
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	CC-HM1
Level of the course (As per Annexure-I)	200-299
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to 1. Draw on demographic concepts and population theories to explain past and present population characteristics. 2. Analyze the world population growth and trends and distinguish between the populations patterns of developed and less developed countries. 3. Understand and analyze various demographic issues in India. 4. Apply economic analysis to evaluate everyday Demographic problems.

5*			
Credits	Theory	Tutorial	Total
	03	01	04
Contact Hours	03	01	04

Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**

Part-B Contents of the Course

Instructions for Paper Setters
4. Nine Questions will be set in all and students will be required to attempt 5 questions.
5. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
6. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Fundamentals of Demographic Analysis** Definition, Nature and Scope of Demography, Sources of Demographic data, Fundamentals of Demographic Analysis,	

	Population and Economic Development.	15
II	**Population Theories** Malthusian theory Population Growth and Demographic Transition, Optimum Population theory, Theory of Demographic transition, Population aging: consequences of age structure.	15
III	**The Causes of Population Change** Fertility, causes of fertility change, Measurement of fertility, fertility differentials in India migration, causes, and migration consequences, Health and Mortality, Measurement.	15
IV	**Data and Demographic features of Indian Population** Census in India, National Family Health Survey-objectives and various rounds, Sample surveys in India, Civil Registration system Demographic features of Indian Population, Population Policies of India.	15
V*		

Suggested Evaluation Methods	
Internal Assessment: 30	**End Term Examination:70**
➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)** Class Participation :5 Seminar/Presentation/Assignment/Quiz/Class Test etc. :10 Mid Term Exam :15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	Theory

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	VIII
Name of the Course	Mathematical Economics
Course Code	**B23-ECO-801**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/VAC)	CC-H4
Level of the course (As per Annexure-I)	400-499
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Understand and design different forms of utility and demand functions; and thereby attain in-depth knowledge of optimization and related concepts in consumer behavior using mathematical derivations. • Elucidate various forms of production functions along with their working, and concepts of optimization, duality, product exhaustion, productivity and efficiency using mathematical equations. • Explain mathematically the concepts of market equilibrium as well as general equilibrium, and estimate, and interpret the time path of any economic variable. • Analyze and interpret the choices made by consumers, investors and firms under uncertainty, and over different time periods.

	5*		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04

Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**
Part-B Contents of the Course	
Instructions for Paper Setters	
• Nine Questions will be set in all and students will be required to attempt 5 questions.	
• Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks). • For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).	

Unit	Topics	Contact Hours

I	**Consumer Behavior** Types of Utility Functions; Ordinal utility maximization; Demand functions–ordinary and compensated; Slutsky equation; Consumer surplus; Elasticity of demand; Linear expenditure systems; Indirect utility function.	15
II	**Production Function Analysis** Production functions (CD, CES, Translog) and their properties; Producer's equilibrium; Duality in cost and production functions; Product exhaustion theorems; Growth Accounting Equation; Methods for measuring productivity and efficiency.	15
III	**Market Equilibrium** Product and factor market equilibrium; Existence, uniqueness and stability of equilibrium; Static stability; Dynamic stability-lagged adjustment and continuous adjustment; General equilibrium - pure exchange, production and exchange, the numeraire and money.	15
IV	**Choice Under Uncertainty and Optimization Over Time** Problem of choice in situations of uncertainty and risk; Production under uncertainty; Futures market and hedging; Multi-period consumption; Time value of money and project selection criterion. Risk–return trade off.	15
V*		

Suggested Evaluation Methods		
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**		**End Term Examination:70** Theory
Class Participation	5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	10	
Mid Term Exam	15	
➢ **Practicum**		
Class Participation		
Seminar/Demonstration/Viva Voce/Lab Records etc.		
Mid Term Exam:		

Part-C Learning Resources

Recommended Books/E-Resources/LMS:

- Allen, R.G.D. (1972). Mathematical economics. Macmillan, London.
- Allen, R.G.D. (2002). Mathematical analysis for economists. Macmillan Press and ELBS, London.
- Chiang, A.C.(2006). Fundamental methods of mathematical economics. McGraw Hill, New York.
- Chiang, A.C. (1999). Elements of dynamic optimization. Waveland Press Inc., Long

Grove, Illinois.

- Chung, J.W. (1994). Utility and production: Theory and applications. Basil Blackwell, London.
- Henderson, J. M.,&Quandt, R.E. (2003). Microeconomic theory: A mathematical approach. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). Modern microeconomics. Macmillan Press, London.
- Lancaster, K. (2012). Mathematical economics. Dover Publications Inc., New York.
- Mehta, B. C. &Madnani, G. M. K. (2018). Mathematics for economists. Sultan Chand & Sons.
- Varian, H. (2006). Microeconomic analysis. W.W. Norton, New York.
- Vohra, N.D. (2008). Quantitative techniques in management. Tata McGraw Hill.

Session 2025-2026			
Part-A Introduction			
Subject	Economics		
Semester	VIII		
Name of the Course	Environmental Economics		
Course Code	**B23-ECO-802**		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC)	CC-H5		
Level of the course (As per Annexure-I)	400-499		
Pre-requisite for the course (if any)	N.A.		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Understand how environment affects the economic life and every aspect of the economy. • Develop the understanding of public goods, externalities and market failure through various theories of externality. • Have basic understanding of the concept & indicators of sustainable development. • Have an idea of international and Indian environmental policies and the measures adopted by the Indian government to control pollution across different sectors.		
	5*		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100	**Time: 3 Hrs**		

Internal Assessment Marks: 30 End Term Exam Marks: 70	

Part-B Contents of the Course	

Instructions for Paper Setters

- Nine Questions will be set in all and students will be required to attempt 5 questions.
- Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
- For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Environment and the Economy:** Environment-Economy linkage; Major Environmental Issues; Sector-wise Pollution and Measures to Control Them: (Industrial Pollution; Agricultural Pollution and National Mission for Sustainable Agriculture; Transport Pollution)	15
II	**Theories of Externality:** Common Property Resources; Public Goods; Market failure and externalities; Pareto Optimality and perfect competition; External effects in production and consumption;Pigouvian taxes and subsidies; Property Rights and Coase Theorem; Tradable Permits	15
III	**Sustainable Development:** Concept and Indicators: Sustainable Development Goals; SDGs and India; concepts of Green GDP, Green Growth, Green Consumer and Green Business; Smart Cities Mission in India;	15
IV	**Environmental Policy:** International Environmental Policy; Trans-boundary environmental problems; Environmental Policy in India – Problems of command and control regime; Central Pollution Control Board; National Green Tribunal; Pollution Control Measures in India with Special Reference to Industry, Transport and Energy;	15
V*		

Suggested Evaluation Methods		
Internal Assessment: 30		**End Term Examination:70** Theory
➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**		
Class Participation	5	
Seminar/Presentation/Assignment/Quiz/Class Test etc.	10	
Mid Term Exam	15	

➢ **Practicum**	
Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	

Part-C Learning Resources

Recommended Books/E-Resources/LMS:

- Bhattacharya, Rabindra Nath (2002). Environmental Economics: An Indian Perspective. Oxford India.
- Bromely, Daniel E The Handbook of Environmental Economics
- Barry Field and Martha k Field: Environmental Economics, McGraw Hill International Edition, 2017.
- Bhattacharya Rabindra Nath (Ed) (2001), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.
- Charles Kolstad, Intermediate Environmental Economics, Oxford University Press, 2nd edition, 2010.
- Hanley Nick, Shogren Jason and White Ben: Introduction to Environmental Economics, Oxford University Press, 2001.
- Hanley, Nick, Jason F Shogren & Ben White, (2008). Environmental Economics, Macmillan.
- Henderson, J. M. &Quandt, R.E. (2003).Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
- Kaltschmitt, Martin, Streicher, Wolfgang, Wiese, Andreas, Renewable Energy: Technology, Economics and Environment, Springer, Germany, 2007.
- Koutsoyiannis, A. (1979). Modern Microeconomics, Macmillan Press, London.
- V.S. Ganesamurthy: Environmental Economics in India, New Century Publications, New Delhi, 2009.
- Robert N. Stavins (ed.), Economics of the Environment: Selected Readings, W.W. Norton, 5th edition, 2005.
- Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/Addison Wesley, 3rd edition, 2003.
- Maureen L. Cropper and Wallace E. Oates, 1992, ―Environmental Economics: A Survey, Journal of Economic Literature, Volume 30:675-740.
- Ministry of Environment& Forest website.

<table>
<tr><td colspan="4" align="center">Session 2025-2026</td></tr>
<tr><td colspan="4" align="center">Part-A Introduction</td></tr>
<tr><td>Subject</td><td colspan="3">Economics</td></tr>
<tr><td>Semester</td><td colspan="3">VIII</td></tr>
<tr><td>Name of the Course</td><td colspan="3">Schools of Economic Thought</td></tr>
<tr><td>Course Code</td><td colspan="3">B23-ECO-803</td></tr>
<tr><td>Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC</td><td colspan="3">CC-H6</td></tr>
<tr><td>Level of the course (As per Annexure-I)</td><td colspan="3">400-499</td></tr>
<tr><td>Pre-requisite for the course (if any)</td><td colspan="3">N.A.</td></tr>
<tr><td>Course Learning Outcomes (CLO)</td><td colspan="3">After completing this course, the learner will be able to:
1. Understand the importance of historical development of ideas in Economics.
2. Make the students acquainted with Classical and Neo classical economic thoughts and synthesis of these thoughts by Marshall.
3. Evaluate the contribution of Keynes in Economics and importance of institutional Economics.
4. Understand the contribution of Indian economics philosophers.</td></tr>
<tr><td></td><td colspan="3">5*.</td></tr>
<tr><td>Credits</td><td>Theory</td><td>Tutorial</td><td>Total</td></tr>
<tr><td></td><td>03</td><td>1</td><td>04</td></tr>
<tr><td>Contact Hours</td><td>03</td><td>1</td><td>04</td></tr>
<tr><td>Max. Marks: 100
Internal Assessment Marks: 30
End Term Exam Marks: 70</td><td colspan="3">Time: 3 Hrs</td></tr>
<tr><td colspan="4" align="center">Part-B Contents of the Course</td></tr>
<tr><td colspan="4" align="center">Instructions for Paper Setters</td></tr>
<tr><td colspan="4">Nine Questions will be set in all and students will be required to attempt 5 questions.
Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).</td></tr>
<tr><td>Unit</td><td colspan="2">Topics</td><td>Contact Hours</td></tr>
<tr><td>I</td><td colspan="2">Introduction:
What is History of Economic Thought; Methodological Approaches; Political Economy and History of Economic</td><td></td></tr>
</table>

	Thought **Classical School:** Smith- Division of Labour (Meaning, Origin, Advantages and Disadvantages); Malthus – The Principle of Population; Ricardo-Theory of Rent, Marx- Theory of Surplus Value; Marxian and Orthodox Economics	15
II	**Neo Classical School:** Nature and Origin of Neo Classical Economics; Jevons- Utility theory of value and Exchange; Walras: General Equilibrium model **Marshall:** Equilibrium price; Importance of Time Elements; Consumer Surplus; concept of Elasticity	15
III	**Keynes:** Effective Demand; Multiplier; Liquidity Preferences Theory **Institutionalism:** Meaning and Features of Institutional Economics; Veblon's theory of Leisure class	15
IV	**Indian Economic Thought:** Kotilya- Main Economic Idea, Naroji- The Drain Theory, Ghandi- Decentralization of Small Production Units , Ambedkar- Problem of Rupee; Sen - Capability Functioning Approach to Development	15
V*		
Suggested Evaluation Methods		
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)** Class Participation :5 Seminar/Presentation/Assignment/Quiz/Class Test etc.:10 Mid Term Exam :15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:		**End Term Examination:70** Theory
Part-C Learning Resources		

Recommended Books/E-Resources/LMS:
- V. Lokanathan (2010), History of Economic Thought, S.Chand & Company, New Delhi.
- G. Vaggi and P. Groenewegen, (2014), A Concise History of Economic Thought: From Mercantilism to Monetarism, Palgrave Macmillan UK.
- Randy R. Grant 2006), The Evolution of Economic Thought, Thomson/South-Western.
- Joseph A. Schumpeter (1954), History of Economic Analysis, Oxford University Press.
- R.R. Paul (2010), History of Economic Thought, Kalyani Publishers, New Delhi.

Session 2025-2026			
Part-A Introduction			
Subject	Economics		
Semester	VIII		
Name of the Course	Economics of Health		
Course Code	**B23-ECO-804**		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/VAC)	DSE-7		
Level of the course (As per Annexure-I)	400-499		
Pre-requisite for the course (if any)	N.A.		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Understand the basics of economics of health. • Comprehend the various approaches of economic valuation of health and apply them for research in the field of health economics. • Elucidate the economic dimensions of health in terms of demand-supply considerations, and health care financing and understand concerned issues and challenges. • Analyzevarious health policy issues from normative perspective and design a health policy that can develop an efficient, equitable, and sustainable health sector.		
	5*		
Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04
Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**		
Part-B Contents of the Course			
Instructions for Paper Setters			
• Nine Questions will be set in all and students will be required to attempt 5 questions. • Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks). • For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).			
Unit	Topics		Contact Hours
I	**Introduction to Economics of Health** Economics of health: Origin, Evolution, Scope and Relevance;		15

	Meaning, importance, and determinants of health; Relationship between Health and Economic Development; Distinction between health and health care; Curative, Preventive, and Promotive health care; Concepts of Health Outcomes/Status, and Health care infrastructure.	
II	**Economic Valuation of Health** Meaning, Importance, Types, and Approaches to modelling in economic evaluation; Cost-benefit analysis; Cost-effectiveness analysis; Cost Utility Analysis; Global Burden of Disease; Disability-Adjusted Life Years; Quality-Adjusted Life Years.	15
III	**Economic Dimensions of Health** Demand for health: Consumer as health producer, Investment aspects of health, Marginal efficiency of investment (MEI) approach, Grossman model; Demand for health care: Determinants and Measurement; Production, Cost, and Technology of health care; Financing of health and health care: Determinants, Sources (Public, private, out-of-pocket, and public-private partnership), and Challenges; Analysis of Health insurance.	15
IV	**Health Policy Issues** Role of National Health Mission (NRHM and NUHM) with reference to India; Health accounting in India; National Health Policy of India; Market failure in health care sector and need for government intervention; Efficiency, equity, utilization, and quality of health care services; Analysis of Health related SDGs; Implications of World Health Organization for Health care sector.	15
V*		

Suggested Evaluation Methods	
Internal Assessment: 30 ➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)** Class Participation 5 Seminar/Presentation/Assignment/Quiz/Class Test etc. 10 Mid Term Exam 15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	**End Term Examination:70** Theory

Part-C Learning Resources
Recommended Books/E-Resources/LMS: • Bhattacharya,J., Hyde, T., & Tu, Peter (2014). Health economics. Palgrave Macmillan. • Dewar, D.M. (2010). Essentials of health economics. Jones and Bartlett Publishers, LLC. • Folland, S., Goodman, A.C.,& Stano, M. (2009). The economics of health and health care. New Delhi: Dorling Kindersley India Pvt. Ltd. • Elliott, R., & Payne, K. (2005). Essentials of economic evaluation in healthcare. U.K.:

Pharmaceutical Press.

- Grossman, M. (1972). On the concept of health capital and the demand for health. Journal of Political Economy, 80, 223-255.
- Grossman, M. (1992). The demand for health: A theoretical and empirical investigation. National Bureau of Economic Research (Columbia University Press), New York.
- Grossman, M. (2017). Determinants of health – An economic perspective. Columbia University Press, New York Chichester, West Sussex.
- Henderson, James W. (2005). Health economics and policy. New Delhi: South-Western Cengage Learning India Private Limited.
- Joseph, A.E., & Philips, D.R. (1984). Accessibility and utilization: Geographical perspectives on health care delivery. New York: Harper & Row Publishers.
- Krabbe, Paul F. M. (2017). The measurement of health and health status: Concepts, methods and applications from a multidisciplinary perspective. London: Academic Press.
- McGuire, A., Henderson,J.,& Mooney,G. (1988). The economics of health care: An introductory text. Routledge.
- Mushkin, Selma J. (1962). Health as an investment. Journal of Political Economy, 70, 129-137.
- Musgrove, P. (2004). Health economics in development. The World Bank.
- Newhouse, J. (1977). Medical care expenditure: A cross-national survey. Journal of Human Resources, 12, 115-125.
- Palmer, George R., & Ho, Maria Theresa (2008). Health economics: A critical & global analysis. Palgrave Macmillan.
- Prasad, P., & Jesani, A. (2018). Equity and access: Health care studies in India. Oxford University Press.
- Rana, H.P.S. (2009). Health economics. New Delhi: Alpha Publications.
- Ruger, J. P., & Yach, D. (2014). The global role of the World Health Organization. Glob Health Gov., 2(2), 1–11. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3981564/pdf/nihms559045.pdf
- WHO Commission on Macroeconomics and Health. (2001). Macroeconomics and health: Investing in health for economic development.https://iris.who.int/handle/10665/42435
- Zweifel, P., Breyer, F., & Kifmann, M. (2009). Health economics. Springer.

Session 2025-2026	
Part-A Introduction	
Subject	Economics
Semester	VIII
Name of the Course	Economics of Education
Course Code	**B23-ECO-805**
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	DSE-7
Level of the course (As per Annexure-I)	400-499
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Understand the concept and importance of education, its relation with economic system and education as an investment. • Analyze the cost and benefits of Education. • Develop the understanding of education as an infrastructure. • Understand the relation between education and economic development and apply their knowledge for improvement in education system.

Credits	Theory	Tutorial	Total
	03	1	04
Contact Hours	03	1	04

Max. Marks: 100 **Internal Assessment** **Marks: 30** **End Term Exam Marks:** **70**	**Time: 3 Hrs**

Part-B Contents of the Course

Instructions for Paper Setters
- Nine Questions will be set in all and students will be required to attempt 5 questions.
- Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
- For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	**Economics of Education** Meaning and Scope of Economics of Education; Relationship between Education and the Economic System (Capitalist Economic System; Socialist Economic System; Mixed Economic System); Education as an industry; Education as both consumption and Investment; Education as individual, social and national investment; Educational infrastructure and Economic Growth; Human Capital Theory.	15
II	**Educational Technology** Use of technology in education delivery; Impact of technology on learning outcomes; Life-Long Learning-Importance of continuous education and retraining; Policies to promote life-long learning in the workforce; Role of education in upward social mobility; Intergenerational transmission of educational attainment; Efficiency in Education.	15
III	**Costs and Benefits Analysis in Education** Cost of Education- Private and Social Cost; Waste and Stagnation; Benefits of Education- Direct and Indirect, Private and Social Benefits; Cost-benefit Model; Education Production Function; Education, productivity and Income; Educational Indicators; Efficiency in Education.	15
IV	**Education and Economic Development** Interrelationship between Education and Economic development; Resource constraints and Resource Mobilization; Education and economic development in urban and rural areas; Education externalities; Linkages between education and health outcomes; Suggestions for improvement in education system.	15
Suggested Evaluation Methods	

Internal Assessment: 30
  ➤ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =15)**
    Class Participation   5
    Seminar/Presentation/Assignment/Quiz/Class Test etc.   10
    Mid Term Exam   15
  ➤ **Practicum**
    Class Participation
    Seminar/Demonstration/Viva Voce/Lab Records etc.
    Mid Term Exam:
	End Term Examination:70
	Theory

Part-C Learning Resources	

Recommended Books/E-Resources/LMS:
    REFERENCES:
        • Ainyemi, Samuel. (2013). The Economics of Education, Strategic Book	

Publishing and Rights Co.

- Blaug, M. (Ed). (1968). Introduction to Economics of Education. Penguin Books, England.
- Brewer, D.J. & Patrick, J.M. (2009) Economics of Education, Elsevier publication
- Dustmann, C.,Fitzenberger, B.&Machin,S. (2008). The Economics of Education and Training. Springer
- McMohan, W.W. (2000). Education and Development; Measuring the Social Benefit. Oxford University Press
- Psacharopoulos, g. (2014). Economics of Education: research and studies. Pergamon Press, Elsevier Science LTD

Session 2025-2026			
Part-A Introduction			
Subject	Economics		
Semester	VIII		
Name of the Course	Application Software(s) for Economics		
Course Code	**B23-ECO-806**		
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	PC-H2		
Level of the course (As per Annexure-I)	**400-499**		
Pre-requisite for the course (if any)	Basic Statistics, Random variable, Probability distributions		
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: • Understand the use various open source statistical software i.e. Excel, PSPP, SPSS, JASP, and Gretl to analyse economic data. • Prepare and present the summary of economic data by using these statistical software. • Calculate and interpret parametric and non parametric tests to test the relevant hypotheses. • Estimate the various economic functions by regression analysis and interpret the coefficients.		
	5*. Learn Analyzing Economic Data		
Credits	Theory	Practical	Total
	0	4	04
Contact Hours	0	8	08
Max. Marks: 100 Internal Assessment Marks: 20+10*	**Time: 3 Hrs**		

End Term Exam Marks: 50+20*	

<table>
<tr><td colspan="2" align="center">Part-B Contents of the Course</td></tr>
<tr><td colspan="2" align="center">Instructions for Paper Setters
1. Five Data Analysis Problems will be given in all by the examiner on the spot in the lab and the students will be required to analyze four of them.
2. At least one problem from each unit shall be given.
   3. Each problems shall be of 10 marks.</td></tr>
<tr><td>Unit</td><td>Topics</td><td>Contact Hours</td></tr>
</table>

Unit	Topics	Contact Hours
I	**Introduction to Open Source Statistical Software:** Excel, PSPP, SPSS, JASP, Gretl; Preparing the data File; Importing and Exporting Data; **Visual Description**: Histogram, Stem-And-Leaf Display, Dotplot, Bar Chart, Line Chart, Pie Chart, Scatter Diagram, Cross-Tabulation, Cross-Tabulation with Cell Summary Information; **Descriptive Statistics:** Central Tendency, Dispersion, Box Plot, Kurtosis, and Skewness; Applications, precautions and interpretation of the Various Measures of Central Tendency and Dispersion in economics; Relationships among Measures of Central Tendency and Skewness; Standardizing the Data.	30
II	**Parametric Tests:** Hypothesis testing: the Basic Procedure; Large Sample Test, Small Sample Test – One Sample t Test, Independent Samples t Test, Paired Sample t Test, Comparing more than two samples - One-Way Analysis of Variance, Randomized Block Analysis of Variance, Two-Way Analysis of Variance; Chi-Squared Test for Goodness of Fit, Chi-Squared Test of Independence.	30
III	**Non Parametric Tests:** Wilcoxon Signed Rank Test for One Sample, Wilcoxon Signed Rank Test for Comparing Paired Samples, Wilcoxon Rank Sum (Mann-Whiteny U) Test for Two Independent Samples, Kruskal-Wallis Test for Comparing More Than Two Independent Samples, Friedman Test for the Randomized Block Design, Runs Test for Randomness, Kolmogorov-Smirnov Test for Normality, Measures of Association – Kendall's Test, Spearman Rho.	30

IV	**Regression Analysis:** Nature of Regression Analysis; Simple and Multiple Regression Analysis (Estimation by OLS); Interpretations of Regression Coefficients; Partial and Overall Significance Regression Coefficients (t test, F test, P values, R-square); **Assumption Check of Regression Analysis**: Residual Plots (Residual vs. Dependent, Residual vs. Covariates, Residual vs. Predicted, Residual Histogram, and Q-Q Plot Standardized Residuals); Durbin-Watson Statistics, Collinearity Diagnostics (Eigen value, Condition Index, Tolerance Factor, and VIF).	30

Suggested Evaluation Methods	
Internal Assessment Practicum : 30 Class Participation 5 Seminar/Presentation/Assignment/Quiz/Class Test etc.:10 Mid Term Exam:15	**Practicum: 70**

Part-C Learning Resources
Recommended Books/E-Resources/LMS: - Norris, G., Qureshi, F., Howitt, D., & Cramer, D. (2014). Introduction to statistics with SPSS for social science. Routledge   - Spiegel, Murry R (1992), Theory and problems of Statistics ,Schaum's outline series, McGraw Hill.   - Ronald M. Weiers, J. Brian Gray and Lawrence H. Peters (2008). Introduction to Business Statistics, South-Western, Cengage Learning.   - Scott Stevens (2013), INTRODUCTION TO STATISTICS THINK & DO, The Worldwide Centre for Mathematics.   - Damodar N. Gujarati (2015), Basic Econometrics, McGraw Hill Education.   - JASP, (2020), Statistical Analysis in JASP: A Guide for students, by Mark A Goss-Sampson.   - Free Software Foundation, (2023), PSPP Users' Guide, GNU PSPP Statistical Analysis Software.

* Applicable for courses having practical component.

Part-A Introduction	
Subject	**Economics**
Semester	VIII
Name of the Course	**Economic Policy in India**
Course Code	B25-ECO-807
Course Type: (CC/MCC/MDC/ CCM/ DSEC/VOC/DSE/PC/AEC/ VAC	CC-HM2
Level of the course (As per Annexure-I)	200-299
Pre-requisite for the course (if any)	N.A.
Course Learning Outcomes (CLO)	After completing this course, the learner will be able to: 1. Explain the central features and structural changes in the Indian economy since independence. 2. Interpret key concepts of national income, growth, and development. 3. Assess the impact of economic policies on major sectors. 4. Understand the basics of fiscal policy, monetary policy, and the Balance of Payments (BOP) framework in India.

5*

Credits	Theory	Tutorial	Total
	03	01	04
Contact Hours	03	01	04

Max. Marks: 100 **Internal Assessment Marks: 30** **End Term Exam Marks: 70**	**Time: 3 Hrs**

Part-B Contents of the Course

Instructions for Paper Setters

7. Nine Questions will be set in all and students will be required to attempt 5 questions.
8. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2*7=14 marks).
9. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Unit	Topics	Contact Hours
I	Appraisal of Mahalabois strategies of Development, over view of resource allocation in India 5 year plans. Over view of financing of 5 year plans, achievements of 5 year plans	

	and NITI ayog , An appraisals of Economic reforms	15
II	Industrial Policies pre and after 1991; Policies towards Public sector since 1991; privatization of PSU's, Industrial relation policies of the government.	15
III	Reforms measure to strengthen the Indian money market; Second generation Indian Banking reforms, latest monetary policies of RBI; SEBI and Capital market development.	15
IV	Trade policies of government of India, special Economic zones, FERA, FEMA; Indian exchange rate polices (Capital Account convertibility), globalization and its impact.	15
V*		

Suggested Evaluation Methods

Internal Assessment: 30	End Term Examination:70
➢ **Theory (All these activities will be covered under Tutorials. Approximate contact Hours =12)** Class Participation :5 Seminar/Presentation/Assignment/Quiz/Class Test etc. :10 Mid Term Exam :15 ➢ **Practicum** Class Participation Seminar/Demonstration/Viva Voce/Lab Records etc. Mid Term Exam:	Theory Theory