



KANNUR UNIVERSITY
കണ്ണൂർ സർവകലാശാല

(Abstract)

Scheme and Syllabus of the Courses of Economics Programme -Third and Fourth Semesters - Prepared in tune with KU-SLL-FYUGP Regulation - Approved & Implemented under the Private Registration scheme of the School of Lifelong Learning w.e.f 2024 admission - Orders issued

ACADEMIC C SECTION

ACAD C/ACAD C5/1577/2025

Dated: 30.12.2025

Read:-1. U.O No. ACAD C/ACAD C5/1577/2025 dtd: 01-02-2025
2. U.O No. ACAD C/ ACAD C5/21553/2024 dtd: 27.08.2025
3. E-mail dtd: 08/11/2025, from the Chairperson, BoS in Economics (UG)
4. Minutes of the meeting of the Standing Committee of the Academic Council held on 05/12/2025
5. Orders of the Vice Chancellor in the file of ACAD C/ACAD C5/26224/2024 dtd:24-12-2025

ORDER

- 1.The Scheme and Syllabus for the first and second semester courses of the Economics programme, prepared in tune with the KU-SLL-FYUGP Regulation (2024) was approved and implemented under the Private Registration Scheme of School of Lifelong Learning w.e.f 2024 admission, vide paper read (1) above
- 2.The list of courses, to be offered in the third and fourth semesters of FYUG programmes under Private Registration Scheme of SLL, w.e.f 2024 admission was approved and implemented vide paper read (2) above.
- 3.Subsequently, vide paper read (3) above, the Chairperson BoS in Economics (UG) submitted the Scheme and Syllabus for the third and fourth semester Courses of the FYUG Economics programme, for approval and implementation under the Private Registration Scheme of the School of Lifelong Learning of the University w.e.f. 2024 admission.
4. Considering the matter, the Hon'ble Vice Chancellor ordered to place the Scheme and Syllabus, before the Standing Committee of the Academic Council for consideration.
- 5.The Standing Committee of the Academic Council, vide paper read (4) above, considered the matter and recommended to approve the Scheme and Syllabus for the third and fourth semester courses of the FYUG Economics programme under the Private Registration Scheme of the School of Lifelong Learning of the University for implementation w.e.f. 2024 admission.
- 6.The Hon'ble Vice Chancellor, after considering the recommendation of the Standing Committee of the Academic Council and in exercise the powers of the Academic Council, conferred under Section 11(1) Chapter III of Kannur University Act, 1996 and all other enabling provisions read together with, ***approved the Scheme and Syllabus for the Third and Fourth Semester Courses of the Economics Programme, prepared in tune with KU-SLL-FYUGP Regulations 2024 and implemented under Private Registration Scheme of School of Lifelong Learning of the University, w.e.f 2024 admission***, subject to reporting to the Academic Council.
7. The Scheme and Syllabus for the Courses of Economics Programme (Third and Fourth) under Private Registration Scheme of the School of Lifelong Learning of Kannur University, applicable w.e.f. 2024 admission is appended with this U.O. and uploaded in the University website.



Orders are issued accordingly.

Sd/-

Jisha K P
Assistant Registrar II
For REGISTRAR

To: 1. The Controller of Examinations (Through PA)
2. Director, (In charge) School of Lifelong Learning

Copy To: 1. The Chairperson, Board of Studies in Economics (UG)
2. PS to VC/PA to R
3. EX CI/EG I/AR-I/AR-IV/JR-2(EXAM)
4. DR/AR (Academic)
5. IT Cell/Computer Programmer
6. SF/DF/FC

Forwarded / By Order

2025
SECTION OFFICER

KV



B.A. Economics – III Semester

Sl No.	Name of the Course	Number of course	Credit	Marks			Duration of the ESE
				ESE	CCA	Total	
1	Multi Disciplinary Course – MDC – 3 KU3MDCENG201 - Kerala Knowledge Systems <i>(Common Syllabus for all Programmes)</i>	1	3	50	25	75	1½ Hours
2	Value Added Course – VAC – 1 KU3VACECO202 - Academic Writing in Social Science <i>(for B.A. Economics Candidates)</i>	1	3	50	25	75	1½ Hours
3	DSC - Major 3 KU3DSCECO201 - Intermediate Microeconomics	1	4	70	30	100	2 Hours
4	DSC - Major 4 KU3DSCECO202 - Basic Analytical Tools for Economics	1	4	70	30	100	2 Hours
	DSC - Minor (for other Programmes)						
5	Minor Course 1 KU3DSCECO203 Economics of Banking and Finance	1	4	70	30	100	2 Hours
6	Minor Course 2 KU3DSCECO205 Economics of Care and Ageing	1	4	70	30	100	2 Hours
	TOTAL	6	22				

B.A. Economics – IV Semester

Sl No.	Name of the Course	Number of course	C	Marks			Duration of the ESE
				ESE	CCA	Total	
1	Value Added Course – VAC – 2 KU4VACECO203 Economics of Crime and Corruption <i>(for B.A. Economics Candidates)</i>	1	3	50	25	75	1½ Hours
2	Value Added Course – VAC – 3 KU4VACECO204 Ethics in Academic Writing <i>(for B.A. Economics Candidates)</i>	1	3	50	25	75	1½ Hours
3	Skill Enhancement Course – SEC – 1 KU4SECECO202 Hospital Economics <i>(for B.A. Economics Candidates)</i>	1	3	50	25	75	1½ Hours
4	DSC - Major 5 KU4DSCECO206 Intermediate Macroeconomics	1	4	70	30	100	2 Hours
5	DSC - Major 6 KU4DSCECO207 Environmental Economics	1	4	70	30	100	2 Hours
6	DSC - Major 7 KU4DSCECO208 Public Finance	1	4	70	30	100	2 Hours
7	Internship	1	2				
	TOTAL	7	23				

KU3DSCECO201: INTERMEDIATE MICROECONOMICS

Semester	Course Type	Course Level	Course Code	Credits	Total Hours	
III	DSC-Major	200-299	KU3DSCECO201	4		
Learning Approach (Hours/ Week)			Marks Distribution			
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course sets a foundation for studying advanced microeconomics at the fourth year. The course enables the students to grab more grip in the microeconomic theory via getting hold of some of the theoretical developments. The course starts with the consumer behaviour analysis which would provide foundation for demand analysis under uncertainty conditions in the advanced level. Theories of production and cost are followed in the subsequent module. This is followed by analysis of competitive markets and subsequently analysis of market power with special emphasis on monopoly and monopolistic competition. In brief the course widens the theoretical understanding of an undergraduate student of economics so as to better experience learning of microeconomics at the advanced level.

Course Prerequisite: NIL

Course Outcomes:

At the end of the course the student will be able to;

CO No.	Expected Outcome	Learning Domains
1	Apply theories for understanding the behaviour of a consumer in given market conditions	R, U, A
2	Apply theories for observing the behaviour of production and cost	U, A

3	Learn the dynamics and working of competitive markets by applying models and theories	U, A
4	Learn the dynamics of imperfect markets like monopoly and monopolistic competition by applying models and theories	U, A
5	Widen the analytical tool box of Microeconomics with applications for subsequent learning at the advance levels	A, An

***Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)**

-Mapping of Course Outcomes to PSOs

-	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓		✓				
CO 2	✓						
CO 3	✓						
CO 4	✓		✓				
CO 5	✓						

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
		CONSUMER BEHAVIOUR ANALYSIS
1	1	Consumer preferences
	a)	Market baskets
	b)	Basic assumptions about consumer preferences: Completeness, consistency, transitivity and more is better than the less
2	2	Budget constraints - Budget line
	a)	Effects of changes in income and prices on Budget lines
3		Cardinal vs. Ordinal utility - Marginal utility and consumer choice

2	4	Indifference curve and indifference map
	a)	Shape of indifference curves: convexity and diminishing marginal rate of substitution
	5	Consumer choices: Utility Maximisation with indifference curves
	6	Price effect bifurcation for normal, inferior and Giffen good (as a special case)
	a)	Income effect and substitution effect (Hicks and Slutsky)
	b)	Demand curve from price consumption curve
	7	Revealed preference: with two budget lines
ANALYSIS OF PRODUCTION AND COST		
2	1	Production with one variable input (labour): the law of variable proportions
	2	Production with two variable inputs (labour and capital) with Isoquants
	a)	Substitution among inputs and diminishing marginal rate of technical substitution
	3	Return to a scale - Isoquant approach
	4	Empirical production function – Cobb-Douglas Production function
	5	Cost in the long run: user cost of capital
	a)	Concept of Iso-cost line
	b)	Cost minimising input choice and producer's equilibrium: a given output at minimum cost, output maximization with given cost
	c)	Cost minimisation with varying output levels: the expansion path
	6	Long run average cost and long run marginal cost
3	a)	Economies and diseconomies of scale
	ANALYSIS OF COMPETITIVE MARKETS	
	1	Characterising perfectly competitive markets
	2	Profit maximisation by a competitive firm: TC and TR approach, MC and MR approach
	3	Short run profit maximisation by a competitive firm - shut down rule
	4	Short run supply curve of a competitive firm – the short run market supply curve
3	5	Long run equilibrium and profit maximisation with zero economic profit

	6	Competitive factor market
		a) Demand for input, Derived demand, Marginal Productivity of Factor,
		b) Supply of inputs
		c) Equilibrium in a competitive factor market
	ANALYSIS OF MARKET POWER	
4	1	a) Conceptualizing Monopoly
		b) AR and MR under monopoly
		c) Monopolist's output decision – Rule of thumb for pricing
		d) Equilibrium of a multi-plant firm
		e) Price discrimination – first degree, second degree and third-degree price discrimination
		f) Monopoly power – Sources of monopoly power
		g) Social cost of monopoly – Concept of Dead Weight Loss
	2	Monopsony and Bilateral monopoly (Concepts only)
	3	Monopolistic competition: the makings of monopolistic competition
		a) Equilibrium in the short run and long run
		b) Economic inefficiency: excess capacity

Essential Readings:

1. Pindyck, R. S., Rubinfeld, D. L., & Mehtha P L. *Microeconomics*. Pearson Education. Latest Edition, 437 - 463
2. Nicholson, W., & Snyder, C. M. *Intermediate microeconomics and its application*. Cengage Learning. Latest Edition
3. Dominick Salvatore, Schaum's Outlines, Basic Microeconomics, Latest Edition

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential Reading 1 and 2	
	2	Essential Reading 1 and 2	
	3	Essential Reading 1	
	4	Essential Reading 1 and 2	
	5	Essential Reading 1	
	6	Essential Reading 1 and 2	
	7	Essential Reading 1	
2	1	Essential Reading 1	
	2	Essential Reading 1 and 2	

	3	Essential Reading 1	
	4	Essential Reading 1	
	5	Essential Reading 1 and 2	
	6	Essential Reading 1 and 2	
3	1	Essential Reading 1	
	2	Essential Reading 1	
	3	Essential Reading 1	
	4	Essential Reading 1	
	5	Essential Reading 1	
	6	Essential Reading 1 and 2	
4	1	Essential Reading 1 and 2	
	2	Essential Reading 1	
	3	Essential Reading 1 and 2	
	5	-	Essential Reading 3
			Preferably

Suggested Readings:

1. Mankiw. G, Principles of Microeconomics, Cengage-MindTap, Latest Edition
2. Hall R Varian, Intermediate Microeconomics: A Modern Approach, Latest Edition
3. Salvatore. D, Principles of Microeconomics, Oxford International, Latest Edition
4. Krugman, P & Wells, R. Microeconomics, Worth Publishers, Latest Edition

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		70
Continuous Evaluation		30
a)	Test Paper- 1	
b)	Test Paper-2	
c)	Assignment	
d)	Seminar/Debate	
e)	Book/ Article Review	
f)	Viva-Voce/quiz	
g)	Field Report	
Total		100

KU3DSCECO202: BASIC ANALYTICAL TOOLS FOR ECONOMICS

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
III	DSC-Major	200-299	KU3DSCECO202	4	
Learning Approach (Hours/ Week)			Marks Distribution		
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total
	0	0	30	70	100
					2

Course Description:

This course aims to equip students with the essential mathematical and statistical tools and techniques for understanding and analysing economic phenomena. The course familiarizes with uses of mathematics and statistics in economics. The course explores the concepts of data, variables and different types of surveys. The course covers topics such as measures of central tendencies and dispersion. Moreover, the course explores the topics of sets, relations and functions.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Describe the uses and limitations of mathematics and statistics in economics	R
2	Understand the fundamental mathematical and statistical concepts	U
3	Describe the measures of central tendency and variability	R, U
4	Apply the relevant formula for finding central tendency and variability and evaluate data.	U, A
5	Describe the functional association in mathematical form and present it in graphical form.	R, A

*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1		✓					
CO 2			✓				
CO 3		✓	✓				
CO 4	✓						✓
CO 5	✓	✓					

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
1	INTRODUCTORY STATISTICS	
	1	Meaning and definition of statistics- Descriptive and inferential statistics- Role and functions of statistics- Limitations.
	2	Quantitative variable- Continuous and discrete variables- Qualitative variable- Nominal, ordinal, interval and ratio levels of measurement.
	3	Data-Types of data- Primary and secondary data with their merits and demerits- Techniques of primary data collection- Sources of secondary data.
	4	Population- sample- Sample size- Census vs sample surveys- Need for sampling
2	SUMMARISING AND DESCRIBING DATA	
	1	Frequency distribution - Procedure for construction frequency distribution- Relative frequency distribution - Cumulative frequency distribution - Constructing discrete and continuous frequency distribution.
	2	Graphic and diagrammatic presentation of data - Bar diagram, Pareto chart, pie chart, histogram, frequency polygon and ogives.
	3	Meaning and definition of central tendency/average- Requisites for an ideal measure of central tendency- Properties and computation of arithmetic mean, median and mode- Relationship between mean, median and mode- Geometric and harmonic mean-Partition values: Quartiles, deciles and percentiles.
	4	Meaning and definition of dispersion-Characteristics of an ideal measure of dispersion- Properties and computation of absolute and relative measures of range, quartile deviation, mean deviation and standard deviation- Variance- Lorenz curve and Gini coefficient.
3	MATHEMATICS AND ECONOMICS	
	1	Importance of mathematics in economics-Mathematical economics and non-mathematical economics- Limitations of mathematical economics.

	2	Variables, constants and parameters- Equations and identities.
	3	Introduction to algebra: Types of numbers- Basic operations on numbers- Representation -Evaluation- Simplification (Addition, subtraction, multiplication, factorisation and division) –Solving linear and quadratic equations.
	FUNCTIONS AND GRAPHS	
4	1	Meaning and representation of set- Types and operations on set- Venn diagram- Ordered pairs- Cartesian product of two sets.
	2	Relations and functions- Domain and range- Evaluating functions- Odd, even, single variable, multi-variable, increasing, decreasing, monotonic, convex and concave functions - Linear, quadratic, cubic, rational, exponential and logarithmic function and their graphs.
	3	Economic functions- Demand, supply, utility, production, cost, revenue, profit and consumption.
	4	Applications of functional equations- Equilibrium, determining cost, revenue and profit.

Essential Readings:

1. Anderson, D. R., Sweeney, D. J., Williams, T. A., Camm, J. D., & Cochran, J. J. (2018). Statistics for business & economics. Cengage.
2. Bradley, T., & Patton, P. (2002). *Essential mathematics for economics and business*. John Wiley & Sons.
3. Chiang, A. C., & Wainwright, K. (2013). *Fundamental methods of mathematical economics*. McGraw Hill.
4. Gupta, S. C., & Kapoor, V. K. (2020). Fundamentals of mathematical statistics. Sultan Chand & Sons.
5. Hooda, R. P. (2013). *Statistics for business and economics*. Vikas Publishing House.
6. Rosser, M., & Lis, P. (2016). *Basic mathematics for economists*. Routledge.
7. Sydsaeter, K., & Hammond, P. (2016). *Essential mathematics for economic analysis*. Pearson.
8. Whittle, R. S., & Whittle, J. S. (2017). Statistics. Wiley.

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential readings 4, 5 and 8	
	2	Essential readings 1 and 8	
	3	Essential readings 5	
	4	Essential readings 5 and 8	
2	1	Essential readings 5 and 8	
	2	Essential readings 5 and 8	
	3	Essential readings 5 and 8	
	4	Essential readings 5 and 8	

3	1	Essential readings 3	
	2	Essential readings 3	
	3	Essential readings 3, 6 and 7	
4	1	Essential readings 3	
	2	Essential readings 3 and 7	
	3	Essential readings 2	
	4	Essential readings 3	
5		Essential readings 4, 5 and 8	preferably

Suggested Readings:

1. Baruah, S. (2011). Basic mathematics & its application in economics. Macmillan.
2. Doane, D. P., & Seward, L. E. (2022). Applied statistics in business and economics. McGraw Hill.
3. Freedman, D., Pisani, R., & Purves, R. (2007). Statistics. W.W. Norton & Company.
4. Gupta, S. C., & Kapoor, V. K. (2018). Fundamentals of applied statistics. Sultan Chand & Sons.

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	70
Continuous Evaluation	30
a) Test Paper- 1	
b) Test Paper-2	
c) Assignment	
d) Seminar	
e) Book/ Article Review	
f) Viva-Voce	
g) Field Report	-
Total	100

KU3DSCECO203: ECONOMICS OF BANKING AND FINANCE

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
III	DSC-Minor	200-299	KU3DSCECO203		4	
Learning Approach (Hours/ Week)			Marks Distribution			
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	Duration of ESE (Hours)
	0	0	30	70	100	2

Course Description:

The course aims at providing adequate exposure to the basic concepts and the working of the financial markets nationally and globally. It highlights the organisation, structure, and role of financial markets and institutions. The course will cover basic economic theories related to banking and finance markets. Financial and banking sector reforms and monetary policy with special reference to India are also covered. The course aims to develop the learning skills of the students in a way that they can apply their knowledge not only at the academic level but also at the managerial and leadership level in the field of financial sector.

Course Prerequisite: NIL

Course Outcomes:

COs	Expected Outcome	Learning Domains
CO 1	The students will be equipped with theoretical as well as practical aspects of the structure and working of financial system.	R, U
CO 2	To understand how central banks conduct monetary policy.	U, An
CO 3	The course is expected to expand the skill set of the students for higher studies and employment in finance	R, U
CO 4	The students will be aware of the innovations and the related trends in the field of banking and finance with special reference to instruments like derivatives	R, U
CO 5	To get a real-world experience with the financial market.	R, U

*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓			✓			
CO 2		✓					
CO 3			✓				✓
CO 4			✓			✓	
CO 5	✓			✓			

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
		FINANCIAL SYSTEM
1	1	Financial system a) Meaning and functions b) Financial intermediaries, Financial markets, Financial instruments c) Structure of Indian financial system
		BANKING AND NON-BANKING INSTITUTIONS
	1	Commercial Banks a) Definition and functions b) Balance sheet of a commercial bank c) Principles of port-folio management d) Mechanism of credit creation
2	2	Development Banks a) Meaning and functions b) Major development banks in India (IDBI, SIDBI, NABARD)
	3	Non-banking Financial Institutions a) Meaning and types b) Difference between banking and non-banking institutions
	4	Recent innovations in Indian banking sector a) ATM, CDM, E-Banking, UPI, Credit card, Debit card, Smart card, Core banking, ECS, NEFT, RTGS, IMPS

		b) An overview of banking sector reforms in India (Narasimham and Verma Committee)
		FINANCIAL MARKETS AND INSTRUMENTS
3	1	Money market <ul style="list-style-type: none"> a) Meaning and functions b) Instruments; call money, commercial bill, treasury bill, certificate of deposit, commercial paper, Inter Bank Participation Certificate (IBPC), Repo instruments c) limitations of Indian money market
	2	Capital market <ul style="list-style-type: none"> a) Meaning and functions b) Indian capital market - Structure, instruments and problems
	3	Stock exchanges (BSE, NSE), stock market index; SENSEX, NIFTY. Internet trading; meaning and advantages <ul style="list-style-type: none"> a) BSE and NSE b) Stock market index SENSEX, NIFTY c) Internet trading – Meaning and advantages
	4	d) Derivative instrument - meaning and types (forwards, futures, options, swaps)
4		REGULATORY MECHANISM
	1	a) Reserve Bank of India (RBI) <ul style="list-style-type: none"> a) Structure, Objectives and Functions b) RBI and monetary control
	2	Securities and Exchange Board of India (SEBI) <ul style="list-style-type: none"> a) Meaning, Objectives and Functions
	3	A brief account of the objectives of IRDAI and PFRDA

Essential Readings:

1. M. Y. Khan, Indian Financial System, Tata McGraw Hill, 7th edition, 2011
2. K.C. Shekhar and Lekshmy Shekhar, Banking Theory and Practice, Vikas Publishing House Pvt Ltd, Noida, 21st edition, 2013
3. Narayana Nadar, E (2016) Money and Banking, PHI Learning Private Ltd, Delhi.
4. Muraleedharan, D. (2014). Modern Banking: Theory and Practice. PHI Learning Pvt. Ltd.

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential Readings 1 and 2	-
2	1 to 4	Essential Readings 2, 3	-
3	1 to 4	Essential Readings 1, 2, 3	-
4	1 to 3	Essential Readings 2, 3, 4	-
5	-	Annual Reports of the Respective Bank	Preferably

Suggested Readings:

1. Sayers, R.S (1985) Modern Banking, OUP, Oxford.
2. Bhole, L. M. (2004). Financial Institutions and Markets: Structure, Growth and Innovations, Tata McGraw-Hill Education
3. S K Basu (1980)-Banking Theory and Practice, Macmillan

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		70
Continuous Evaluation		30
a)	Test Paper- 1	
b)	Test Paper-2	
c)	Assignment	
d)	Seminar/Debate	
e)	Book/ Article Review	
f)	Viva-Voce/Quiz	
g)	Field Report	
Total		100

KU3DSCECO205: ECONOMICS OF CARE AND AGEING

Semester	Course Type	Course Level	Course Code	Credits	Total Hours	
III	DSC-Minor	200-299	KU3DSCECO205	4		
Learning Approach (Hours/ Week)			Marks Distribution			
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

The 'Economics of Care and Ageing' course offers an in-depth exploration of the economic aspects of care work and the implications of an ageing population, with a special focus on India and Kerala. It covers theoretical frameworks, demographic trends, gender dimensions, and the economic significance of both formal and informal care. The course examines Kerala's social policies, healthcare infrastructure, and long-term care services for the elderly. Additionally, it addresses the economic impact of ageing on labour markets, health expenditure, and intergenerational support systems. Through research, case studies, and fieldwork, students will gain a comprehensive understanding of the challenges and opportunities in fostering sustainable development amidst ageing demographics.

Course Prerequisite: NIL**Course Outcomes:**

CO No.	Expected Outcome	Learning Domains
1	Understand and apply economic theories related to care work and ageing to develop a comprehensive perspective.	R
2	Assess ageing trends in India and Kerala to understand their socio-economic impacts.	U
3	Evaluate the effectiveness of elderly care policies in Kerala to identify best practices and areas for improvement.	R, U
4	Analyze how ageing affects labour markets, healthcare costs, and family support to understand broader economic consequences.	U, A

5	Develop informed policy recommendations to support healthy and active ageing, ensuring sustainable development.	R, A
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*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1		✓					
CO 2			✓				
CO 3		✓	✓				
CO 4	✓						✓
CO 5	✓	✓					

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
1	INTRODUCTION TO CARE ECONOMICS AND AGEING	
	1	Definition and Scope of Care Economics
	2	Types of Care: Formal and Informal - Economic Significance of Care Work
	3	Ageing Population Trends in India and Kerala
	4	Demographic Transition and Ageing - Implications of Ageing Population on Economy and Society
2	ECONOMIC THEORIES OF AGEING	
	1	Economic Theories of Ageing: Life Cycle Hypothesis, Dependency Ratio, and Social Support
	2	Feminist Economics Perspective on Care Work
	3	Life Course Perspective on Ageing
	4	Challenges and Opportunities of Population Ageing
3	CARE ECONOMY AND SOCIAL POLICIES IN KERALA	
	1	Overview of Care Economy in Kerala - Kerala's Model of Elderly Care: Initiatives, Challenges, and Best Practices

	2	Pension Schemes and Social Security for Elderly in Kerala
	3	Long-Term Care Services: Home-Based Care, Day Care Centers, and Residential Facilities
	4	Elderly Rights and Legal Frameworks in Kerala
	AGEING AND ECONOMIC DEVELOPMENT IN KERALA	
4	1	Economic Impact of Ageing on Kerala's Development
	2	Demographic Dividend and Demographic Transition
	3	Strengthening Social Protection Systems
	4	Integrating Ageing Agenda into Development Plans

Essential Readings:

1. Daly, M. (Ed.). (2001). *Care work: The quest for security*. International Labour Organization.
2. England, P. (2005). *Emerging theories of care work*. Annual Review of Sociology, 31(1), 381-399.
3. Rummery, K., & Fine, M. (2012). *Care: A critical review of theory, policy, and practice*. Policy Press.
4. Bettio, F., & Plantenga, J. (2004). *Comparing care regimes in Europe*. Feminist Economics, 10(1), 85-113.
5. Lloyd-Sherlock, P. (2000). *Old age and urban poverty in the developing world: The shanty towns of Buenos Aires*. Macmillan Press.
6. Knijn, T., & Kremer, M. (1997). *Gender and the caring dimension of welfare states: Toward inclusive citizenship*. Social Politics: International Studies in Gender, State & Society, 4(3), 328-361.
7. . Irudaya Rajan and K. C. Zachariah, Ageing in Kerala: Perspectives, Issues, and Policies.
8. T. N. Srinivasan, Economics of Ageing: Indian Perspective.

Reference Distribution:

Module	Unit	Reference No.
1	1	Essential Readings 1,3,7 and 8
	2	Essential Readings 1,3,7 and 8
	3	Essential Readings 1,3,7 and 8
	4	Essential Readings 1,3,7 and 8
2	1	Essential Readings 2 and 6
	2	Essential Readings 2 and 6

	3	Essential Readings 2 and 6
	4	Essential Readings 2 and 6
3	1	Essential Readings 7 and 8
	2	Essential Readings 7 and 8
	3	Essential Readings 7 and 8
4	1	Essential Readings 7 and 8
	2	Essential Readings 7 and 8
	3	Essential Readings 7 and 8
	4	Essential Readings 7 and 8

Suggested Readings:

1. Academic journals such as "Ageing & Society," "Journal of Population Ageing," and "International Journal of Care and Caring"

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	70
Continuous Evaluation	30
a) Test Paper- 1	
b) Test Paper- 2	
c) Assignment	
d) Seminar/Debate	
e) Book/ Article Review	
f) Viva-Voce/Quiz	
g) Field Report	
Total	100

KU3VACECO202: ACADEMIC WRITING IN SOCIAL SCIENCE

Semester	Course Type	Course Level	Course Code	Credits	Total Hours	
III	VAC	200-299	KU3VACECO202	3		
Learning Approach (Hours/ Week)			Marks Distribution			
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	25	50	75	1.5

Course Description:

This course equips social science students with essential academic writing skills, focusing on the formal writing process, literature review techniques, and research proposal development. Students explore various writing styles, including expository, descriptive, persuasive, analytical, critical/evaluative, and narrative/reflective. Practical activities and interactive sessions provide hands-on experience in drafting research papers, book reviews, textual analysis, case studies, project reports, and dissertations. The course also addresses academic publishing ethics, the peer review process, and journal submission strategies. By the end, students will have a solid foundation in academic writing and research methodology, enhancing their ability to communicate ideas effectively and contribute to social sciences.

Prerequisites: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Learn the formal academic writing process, including structure, style, and citation formats.	U
2	Conduct comprehensive literature reviews and synthesize relevant research findings	A
3	Develop well-structured research proposals with clear objectives and methodologies.	A
4	Draft and revise research papers, incorporating feedback from peers and instructors.	A
5	Understand and apply ethical principles in academic publishing and peer review.	U, A

*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓	✓	✓	✓		✓	
CO 2		✓	✓	✓		✓	
CO 3		✓		✓		✓	
CO 4		✓		✓			
CO 5	✓	✓	✓	✓		✓	

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION
OVERVIEW OF ACADEMIC WRITING AND ITS IMPORTANCE IN SOCIAL SCIENCES		
1	1.1	Introduction to Academic Writing
		a) What is Academic Writing?
		b) Importance of Academic Writing in Social Sciences
	1.2	Understanding Different Types of Academic Writing
		a) Essays and Research Papers
		b) Book Reviews and Textual Analysis
	1.3	c) Case Studies, Literature Reviews, Project Reports, and Proposals
		Approaches to Academic Writing
		a) Expository, descriptive, persuasive
2	1.3	
	2.1	Approaches to Academic Writing
		a) Analytical, critical/evaluative
		c) Narrative/reflective
LITERATURE REVIEW AND FORMULATING THE RESEARCH QUESTION		
2.1	Writing reviews of academic literature	
	a) Selection of topic and identifying relevant literature	

		b) Writing process: Planning, Organizing, Drafting, Editing
		c) Narrowing a topic into a research question
	2.2	Drafting/preliminary write up of a Research Paper in Social Science
3	GENERAL GUIDELINES FOR WRITING A RESEARCH PAPER	
	3.1	Introduction to Structure, Citations and Referencing
		a) Structure: Title page, abstract, introduction, method, results, discussion, references, tables and figures
		b) APA format and other citation styles (APA, MLA, Chicago, Harvard)
	3.2	Key resources and databases in social sciences
4	FUNDAMENTALS OF RESEARCH ETHICS AND PEER REVIEW PROCESS IN ACADEMIC PUBLISHING	
	4.1	Research Ethics
		a) Ethics in research and publication
		b) Academic misconduct: falsification, fabrication, plagiarism
	4.2	Peer review process
		a) Double-blind, single-blind, and open models
		b) Practical peer review exercises
		c) Manuscript preparation and submission guidelines
		d) Responding to reviewer comments

Essential Readings:

1. Graff, G., & Birkenstein, C. (2021). *They say / I say: The moves that matter in academic writing* (5th ed.). W.W. Norton & Company.
2. Galvan, J. L., & Galvan, M. C. (2021). *Writing literature reviews: A guide for students of the social and behavioural sciences* (8th ed.). Routledge.
3. Booth, W. C., Colomb, G. G., & Williams, J. M. (2016). *The craft of research* (4th ed.). University of Chicago Press.
4. Swales, J. M., & Feak, C. B. (2021). *Academic writing for graduate students: Essential tasks and skills* (4th ed.). University of Michigan Press.
5. Turabian, K. L. (2018). *A manual for writers of research papers, theses, and dissertations* (9th ed.). University of Chicago Press.
6. Stephen Bailey. (2003). *Academic Writing A practical guide for students*. Routledge Falmer, Taylor & Francis Group. New York

Reference Distribution:

Module	Reference
1	1. Graff, G., & Birkenstein, C. (2021). <i>They say / I say: The moves that matter in academic writing</i> (5th ed.). W.W. Norton & Company.
	2. Stephen Bailey (2003). <i>Academic Writing: A practical guide for students</i> . Routledge Falmer, Taylor & Francis Group. New York.
	3. Swales, J. M., & Feak, C. B. (2021). <i>Academic writing for graduate students: Essential tasks and skills</i> (4th ed.). University of Michigan Press.
2	1. Galvan, J. L., & Galvan, M. C. (2021). <i>Writing literature reviews: A guide for students of the social and behavioural sciences</i> (8th ed.). Routledge.
	2. Booth, W. C., Colomb, G. G., & Williams, J. M. (2016). <i>The craft of research</i> (4th ed.). University of Chicago Press.
	3. Turabian, K. L. (2018). <i>A manual for writers of research papers, theses, and dissertations</i> (9th ed.). University of Chicago Press.
3	1. Perrin, R. (2018). <i>Pocket guide to APA style</i> (6th ed.). Cengage Learning.
	2. Turabian, K. L. (2018). <i>A manual for writers of research papers, theses, and dissertations</i> (9th ed.). University of Chicago Press.
	3. Kothari, C. R. (2004). <i>Research methodology: Methods and techniques</i> (2nd ed.). New Age International Publishers.
4	1. Resnik, D. B. (2020). <i>The ethics of research with human subjects: Protecting people, advancing science, promoting trust</i> . Springer.
	2. Wager, E., & Kleinert, S. (2011). <i>Responsible conduct of research</i> (2nd ed.). BMJ Books.
	3. Singh, Y. K. (2006). <i>Fundamental of research methodology and statistics</i> . New Age International Publishers.

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	50
Continuous Evaluation	25
a) Test Paper- 1	

b)	Test Paper-2	
c)	Assignment	
d)	Seminar	
e)	Book/ Article Review	
f)	Viva-Voce	
g)	Research Proposal	
Total		75

Employability for the Course: This course enhances employability by equipping students with vital academic writing and research skills. Graduates can pursue careers in academia, research institutions, policy analysis, and publishing. Mastery in writing, literature reviews, and research proposals is highly valued in roles such as research analysts, content writers, and academic editors, especially within the Indian social sciences sector.

KU4DSCECO206: INTERMEDIATE MACROECONOMICS

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	DSC-Major	200-299	KU4DSCECO206	4	
Learning Approach (Hours/ Week)			Marks Distribution		
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total
	0	0	30	70	100
					2

Course Description:

This course provides an examination of macroeconomic theory and its application to policy analysis. The course begins with an exploration of the concept of money, its supply, kinds, and functions. Students will delve into the mechanisms of credit creation by commercial banks and understand the importance of money supply measures such as high-powered money and the money multiplier. Similarly, it covers classical and Keynesian approaches to supply and demand for money. An introduction to inflation and employment and the basic analysis of ISLM model is also introduced. Lastly, various theories of trade cycles and macroeconomic policies, both monetary and fiscal, are studied extensively. The course emphasizes algebraic analysis of ISLM and general equilibrium to provide students with a solid understanding of macroeconomic theory and its practical applications.

Course Prerequisite: NIL**Course Outcomes:**

CO No.	Expected Outcome	Learning Domain
1	Recall the definitions and concepts related to money supply, demand for money, unemployment, inflation, and business cycles	R
2	Understand the relationship between money supply and demand and understand the causes and consequences of unemployment, inflation, and business cycles, as well as the significance of each in macroeconomic analysis.	U
3	Apply the theories of unemployment and inflation to evaluate the impact of various policy interventions on economic outcomes and the IS-LM model to analyse the effects of fiscal and monetary policies.	A
4	Analyse the factors influencing money supply, credit creation, and liquidity preference in the economy and also analyse the determinants of aggregate supply and the Phillips Curve	An
5	Evaluate the effectiveness of policy measures in reducing Unemployment or controlling inflation in different economic environments	E

*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓						
CO 2	✓	✓					
CO 3	✓	✓					
CO 4	✓	✓					
CO 5	✓	✓					

COURSE CONTENTS**Contents for Classroom Transaction:**

M O D U L E	UNI T	DESCRIPTION
MONEY SUPPLY AND DEMAND FOR MONEY		
a) Supply of money; definition, kinds and functions of money.		

1	1	b) measures of money supply; high powered money and money multiplier
	2	Demand for money- Classical Theories of Money: Fisher's and Cambridge Versions of Quantity Theory of Money.
	3	Keynesian liquidity preference theory – indeterminacy of rate of interest in the liquidity preference theory – the liquidity trap.
INFLATION AND UNEMPLOYMENT		
2	1	Inflation, types of inflation, measures of inflation
	2	Economic Effects of inflation
	3	Theories of inflation- classical, Neo-classical and, Keynesian theories of inflation
	4	Monetarist view on inflation
	5	Modern theories of inflation-Demand pull and cost push inflation
	6	Unemployment, measurement of unemployment rate and different types of unemployment
	7	Okun's Law
	8	Inflation and the rate of unemployment – The Phillips Curve
BASIC IS-LM MODEL		
3	1	Integration of Real and Monetary sector
	2	Product market equilibrium – IS curve and real sector
	3	Money market equilibrium -LM curve and monetary sector
	4	General equilibrium – integration of ISLM, limitations of the basic IS-LM model.
	5	Factors determining the slope and shifts in ISLM curves (Algebraic analysis of ISLM and General equilibrium is required)
THEORIES OF TRADE CYCLES AND MACRO-ECONOMIC POLICIES		
4	1	Trade cycles – Meaning and definitions of trade cycles – phases of trade cycles
	2	Theories of trade cycles- Hawtrey's theory – Hayek's theory – Keynesian theory – Hicks' theory- Samuelson's theory.
	3	Macroeconomic policy- meaning and scope, objectives of macroeconomic policies
	4	Monetary policy measure, instruments and limitation
	5	Fiscal policy measures-meaning – instruments and limitation

Essential Readings:

1. Mankiw, N. G. (2010). Macroeconomics (7th ed.). Worth Publishers.
2. Dwivedi, D. N. (2006). Macroeconomics: Theory and policy. Tata McGraw-Hill Education.
3. Mukherjee, S. (2013). A global text: Macroeconomics. New Central Book Agency.
4. Backus, D., Kehoe, P. J., & Kydland, F. E. (1992). International business cycles: Theory and evidence. *Journal of Political Economy*, 100(4), 745–775.
5. Salvatore, D. (n.d.). Schaum's outline of macroeconomics. McGraw-Hill Education.

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential Reading 1/ 2 /3	-
	2	Essential Reading 1/ 2 /3	-
	3	Essential Reading 3	-
2	1	Essential Reading 1/ 2 /3	-
	2	Essential Reading 1/ 2 /3	-
	3	Essential Reading 1/ 2 /3	-
	4	Essential Reading 1/ 2 /3	-
	5	Essential Reading 1/ 2 /3	-
	6	Essential Reading 1/ 2 /3	-
	7	Essential Reading 1/ 2 /3	-
	8	Essential Reading 1/ 2 /3	-
3	1	Essential Reading 1/ 2 /3	-
	2	Essential Reading 1/ 2 /3	-
	3	Essential Reading 1/ 2 /3	-
	4	Essential Reading 1/ 2 /3	-
	5	Essential Reading 1/ 2 /3	-
4	1	Essential Reading 4	-
	2	Essential Reading 4	-
	3	Essential Reading 1/ 2 /3	-
	4	Essential Reading 1/ 2 /3	-
	5	Essential Reading 1/ 2 /3	-
	5	-	Essential Readings 5

Suggested Readings:

1. **Mukherjee, S.** (2021). *Analytical macroeconomics: From Keynes to Mankiw*. New Central Book Agency.
2. **Froyen, R. T.** (2022). *Macroeconomics: Theories and policies* (10th ed.). Pearson Education India.
3. **Dornbusch, R., Fischer, S., & Startz, R.** (2018). *Macroeconomics* (13th ed.). McGraw-Hill Education.
4. **D'Souza, E.** (2009). *Macroeconomics*. Pearson Education India.

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	70
Continuous Evaluation	30
a) Test Paper- 1	
b) Test Paper-2	
c) Assignment	
d) Seminar/Debate	
e) Book/ Article Review	
f) Viva-Voce/quiz	
g) Field Report	
Total	100

KU4DSCECO207:ENVIRONMENTAL ECONOMICS

Semester	Course Type	Course Level	Course Code	Credits	Total Hours	
IV	DSC-Major	200-299	KU4DSCECO207	4		
Learning Approach (Hours/ Week)			Marks Distribution			
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages. Selected topics on international environmental problems are also discussed.

Course Prerequisite: NIL**Course Outcomes:**

At the end of the course, the student will be able to;

Cos	Expected Outcome	Learning Domains
CO 1	Understand key theoretical and empirical concepts in environmental economics.	R, U
CO 2	Equip with a comprehensive analytical understanding of environmental policy theory, spanning from externalities to global environmental accords.	A, R
CO 3	Understand and sensitise major issues in environmental valuation and the fundamental features of environmental policy tools	U, A
CO 4	Understand the transboundary environmental problems and demonstrate their critical understanding of environmental policies	R, E U
CO 5	Gain insight into India's environmental policies, including regulation implementation and the roles of government agencies and NGOs in conservation.	E, A, U

***Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)**
Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓		✓		✓		✓
CO 2	✓				✓	✓	
CO 3	✓	✓		✓	✓		
CO 4	✓	✓			✓	✓	✓
CO 5	✓						✓

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
		ECONOMY AND THE NATURAL ENVIRONMENT
1	1	Why study Environmental economics? a) Inter linkages between the economy and environment b) First and Second law of thermodynamics and material balance model
	2	Micro foundations of Environmental Economics (welfare economics) a) Classification and characterization of natural resources
	3	The relationship between economic development and environmental quality. a) Environmental Kuznets curve b) Environmental adjust of national income
	4	Components and Indicators of Sustainable Development a) Strong and weak sustainability b) Sustainable development goals
2		MODELLING ENVIRONMENTAL PROBLEMS AND SOLUTIONS
	1	Review of market theory and price determination in an environmental context
2	Market failure of pollution using both a public goods model and externality theory	

	3	Allocation of property right and Coase theorem
	4	Economic solutions to environmental problems
		a) Modelling a deposit refund system and pollution permit system
		b) Modelling a deposit refund system and pollution permit system
		VALUATION OF ENVIRONMENTAL GOODS AND SERVICES
3	1	Theory of environmental valuation and conceptual basis of its methods
		a) Compensating Variations and Surplus
		b) Equivalent Variations and Surplus
		c) Willingness to pay or accept for improvement or loss of environmental goods and services
	2	Empirical approaches in environmental valuation
		a) Indirect Methods of environmental valuation
		i) Revealed Preference Methods: Hedonic Pricing
		ii) Revealed Preference Methods: Household Production Function approach
		iii) Revealed Preference Methods: Defensive cost, health cost, and travel cost methods
		b) Direct method of environmental valuation: Stated preference: Contingent valuation method
		ENVIRONMENTAL PROBLEMS AND POLICIES
4	1	Global Environmental issues
		a) Economics of climate change
		b) Climate change and food security
	2	International summits on combating climate change
		a) UN climate change conference-latest
	3	International trade and environment
		a) Various International Environmental Agreements
		b) Basic idea about Montreal and Kyoto Protocol and Talks on Climate Change
	4	India's environmental policies
		a) Implementation of environmental regulations and laws in India
		b) Role of government agencies and non-governmental organizations in environmental conservation

Essential Readings:

1. Callan, S. J., & Thomas, J. M. (2019). *Environmental economics and management: Theory, policy, and applications* (7th ed.). Cengage Learning.
2. Field, B. C., & Field, M. K. (2021). *Environmental economics: An introduction* (8th ed.). McGraw-Hill Education.
3. Perman, R., Ma, Y., Common, M., Maddison, D., & McGilvray, J. (2011). *Natural resource and environmental economics* (4th ed.). Pearson Education.
4. Braden, J. B., & Kolstad, C. D. (Eds.). (1991). *Valuing environmental changes: Theoretical and empirical perspectives*. North-Holland.

5. Romm, J. (2018). *Climate change: What everyone needs to know* (2nd ed.). Oxford University Press.
6. Hunter, D., Salzman, J., & Zaelke, D. (2015). *International environmental law and policy* (5th ed.). Foundation Press.
7. Misra, R., & Nigam, S. (2016). *Environmental law and policy in India*. Oxford University Press.
8. De, A. K., & Shivaraman, S. (2014). *Environmental management: Text and cases*. New Age International Publishers.

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential readings 1	-
	2	Essential readings 2 & 3	-
	3	Essential readings 1	-
	4	Essential readings 1	-
2	1	Essential readings 1	-
	2	Essential readings 1	-
	3	Essential readings 1	-
	4	Essential readings 1	-
3	1	Essential readings 5	-
	2	Essential readings 5	-
4	1	Essential readings 6	-
	2	Essential readings 6	-
	3	Essential readings 6	-
	4	Essential readings 7 &8	-

1. Hanley, N., Shogren, J. F., & White, B. (2013). Environmental economics in theory and practice (2nd ed.). Palgrave Macmillan.
2. Kolstad, C. D. (2011). Environmental economics (2nd ed.). Oxford University Press.
3. Perman, R., Ma, Y., McGilvray, J., & Common, M. (2003). Natural resource and environmental economics (3rd ed.). Pearson Education/Addison Wesley.
4. Cropper, M. L., & Oates, W. E. (1992). Environmental economics: A survey. *Journal of Economic Literature*, 30(2), 675–740.
5. Giddens, A. (2009). The politics of climate change: Environmental dynamics in international affairs. Polity Press.
6. United Nations. (n.d.). Recent international environmental agreements. Retrieved from <https://www.un.org>

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	70
Continuous Evaluation	30
a) Test Paper- 1	
b) Test Paper-2	
c) Assignment	

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d)	Seminar/Debate	
e)	Book/ Article Review	
f)	Viva-Voce	
g)	Field Report / Study Tour Report	
Total		100

KU4DSCECO208: PUBLIC FINANCE

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	DSC-Major	200-299	KU4DSCECO208	4	
Learning Approach (Hours/ Week)			Marks Distribution		
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total
	0	0	30	70	100
					2

Course Description:

This course is tailored for learners with a curiosity to grasp the workings of government finances. The course aims to familiarize students with the significance of government intervention and understanding of how fiscal policy contributes to achieving macroeconomic objectives. This course explores into the efficiency and fairness considerations of taxation across central, state, and local government domains, particularly focusing on the Indian context. Additionally, it covers the dynamics of financial relations between the central and state governments in a federal system. The course will benefit students aspiring for careers in government, policy analysis, business, and journalism.

Course Prerequisite: NIL**Course Outcomes:**

CO No.	Expected Outcome	Learning Domains
1	Gain comprehension of basic Public Finance concepts and utilize welfare economics principles to assess the effectiveness and fairness of government economic policies.	U, A
2	Analyse the significant taxes implemented in India and employ analytical abilities to evaluate the major tax reforms enacted in the country.	An, E
3	Familiarise with the theories of public expenditure and analyse trends and composition of public expenditure in India	U, An
4	Evaluate the sources of public debt, explore methods for debt redemption, and assess trends in Central Government Debt and Liabilities]	E, A
5	Analyse the budget and challenges in the financial relations between the central and state governments.	An, U

*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓			✓	✓		
CO 2	✓	✓	✓		✓		
CO 3	✓		✓				✓
CO 4	✓	✓				✓	
CO 5	✓	✓		✓		✓	

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
INTRODUCTION TO PUBLIC FINANCE		
1		<p>Why study public finance?</p> <p>a) The role of government in the economy.</p> <p>b) Fiscal Functions, Objectives of public finance -allocation, distribution, and stabilization.</p>
2		<p>Tools of Normative Analysis.</p> <p>Welfare economics principles- Pareto Efficiency, Equity, and Social Welfare.</p>
3		<p>Public Goods and Externalities.</p> <p>a) Market failures.</p> <p>b) Characteristics of public goods, Public good vs private good.</p> <p>c) Externalities: positive and negative.</p>
4		<p>Creative Solutions for externality problem.</p> <p>a) Private sector solution to Negative Externalities- Property Rights and Coase Theorem.</p> <p>b) Public sector solution to Negative Externalities -Tax incentives, subsidies, regulation.</p>
TAXATION		
1		Major Revenue Sources-Tax and Non-Tax Revenue.
2		Principles of taxation - Principle of equity: Horizontal and Vertical– Ability to pay, cost of service and benefit principles.
3		Impact and incidence of tax–Tax Shifting and its influencing factors.
4		Major Taxes in India, Major Tax Reforms in India.
5		Current Issues of India's Tax System-Goods and Services Tax (GST) in India: Concept and Structure.

3	PUBLIC EXPENDITURE AND PUBLIC DEBT
	1 Public Expenditure –Major classification of Public Expenditure-Plan and Non-plan Expenditure-Developmental and Non-development expenditure- Revenue and capital expenditure.
	2 Theory of Public Expenditure-Wagner's Hypothesis, Peacock - Wiseman Hypothesis.
	3 Trends and Composition of Public Expenditure in India - FRBM Phase.
	4 Public Debt- Sources, Methods of debt redemption- Trends in Central Government Debt and Liabilities.
4	PUBLIC BUDGET AND FISCAL FEDERALISM IN INDIA
	1 Public Budget: Structure -Classification of budget Concepts: Revenue Account, Capital Account.
	2 Types of Deficits and their significance - Revenue Deficit, Fiscal Deficit and Primary Deficit.
	3 Principles of Federal Finance -Finance Commission & it's functions- latest Finance Commission report.
	4 Local Finance: Meaning and problems of local finance - Functions and Resources of local bodies -Municipalities and Municipal Corporation.
	5 Challenges facing the development of fiscal federalism in India.

Essential Readings:

1. Jonathan Gruber, (2019). Public Finance and Public Policy, 6th Edition. New York: Worth Publishers
2. Musgrave, R. A., Musgrave, P. B., & Bird, R. M. (1989). Public Finance in Theory and Practice (Vol. 5). New York: McGraw-Hill.
3. Harvey S. Rosen and Ted Gayer (2012) Public Finance ,8th Edition. New York: McGraw-Hill
4. Lekhi R.K., Joginder Singh (2022) Public Finance, Kalyani publication, New Delhi
5. Government of India, Ministry of Finance, Department of Economic Affairs, Budget Division. (November, 2022). Budget Manual.
6. Surajit Das, Some Concerns Regarding the Goods and Services Tax, Vol. 52, Issue No. 9, 04 Mar, 2017, EPW
7. D K Srivastava et al., Taxing Petroleum Products: Sharing Revenue Space between Centre and States, Vol. 56, Issue No. 9, 27 Feb, 2021, EPW .
8. Kim,J.and S.Dougherty(eds.)(2020),Local Public Finance and Capacity Building in Asia:Issues and Challenges, OECD Fiscal Federalism Studies, OECD Publishing, Paris, <https://doi.org/10.1787/a944b17e-en>.Reference Distribution
9. Kaplow, Louis (2008) The Theory of Taxation and Public Economics. STU- Student edition, Princeton University Press
10. Government of India Ch.2, Report of 15th Finance Commission, (Pg. 16-19)
11. Government of India Ch. 5, Report of 15th Finance Commission
12. Rao, M. Govinda. (2017).Central transfers to states in India: rewarding performance while ensuring equity.Final report submitted to NITI Aayog
13. Government of India, Report of 15th Finance Commission

14. Stiglitz, J. and Rosengard, J. (2015) Economics of the Public Sector, 4th edition, W. W Norton& Company
15. Ministry of Finance, Department of Economic Affairs, Budget Division. (2021-22). Status Paper on Government Debt. New Delhi.
16. Karnam, Gayithri, Public Expenditure in India: Policies and Development Outcomes (Oxford, 2022; online edn, Oxford Academic, 19 May 2022), <https://doi.org/10.1093/oso/9780192857569.001.0001>
17. Reddy Y. V and Reddy G. V(2019) Indian Fiscal Federalism .Oxford

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential Reading 2	-
	2	Essential Reading 3	-
	3	Essential Reading 1 and 14	-
	4	Essential Reading 1	-
2	1	Essential Reading 4	-
	2	Essential Reading 9 and 14	-
	3	Essential Reading 14	-
	4	Essential Reading 4	-
	5	Essential Reading 6,7 and 8	-
3	1	Essential Reading 4	-
	2	Essential Reading 4	-
	3	Essential Reading 16	-
	4	Essential Reading 15	-
4	1	Essential Reading 5	-
	2	Essential Reading 15	-
	3	Essential Reading 10 and 11	-
	4	Essential Reading 4 and 17	-
	5	Essential Reading 8	-

Suggested Readings:

1. Kaushik Basu, and A. Maertens (ed.), The Oxford Companion to Economics in India, Oxford University
2. John Cullis and Philip Jones (1998), Public Finance and Public Choice, Chapter 3(sections 3.1, 3.2 and 3.3)

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	70
Continuous Evaluation	30
a) Test Paper- 1	
b) Test Paper-2	
c) Assignment	

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d)	Seminar	
e)	Book/ Article Review	
f)	Viva-Voce	
g)	Field Report/ Local Govt bodies Visit report	
Total		100

KU4SECECO202: HOSPITAL ECONOMICS

Semester	Course Type	Course Level	Course Code	Credits	Total Hours	
IV	SEC	200-299	KU4SECECO202	3		
Learning Approach (Hours/ Week)			Marks Distribution			
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
		0	25	50	75	1.5

Course Description:

This course is designed to provide students of economics with the knowledge and skills necessary to analyse hospital performance. The course will cover a wide range of topics, including the healthcare sector, hospital economics, measurement of hospital performance, cost and financial performance.

Course Prerequisite: NIL

Course Outcomes:

At the end of the course the student will be able to;

CO No.	Expected Outcome	Learning Domains
1	Understand the importance of the healthcare sector in the economy	U
2	Analyse the outputs and inputs of hospitals	An, E
3	Analyse and interpret indicators of operational efficiency, cost and financial performance.	An, E
4	Evaluate cost analysis and analyse department wise average cost and procedure costing	An, E

***Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)**

-Mapping of Course Outcomes to PSOs

COS-	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓		✓				
CO 2	✓		✓				
CO 3	✓						
CO 4			✓				

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION	
SIGNIFICANCE OF THE HEALTHCARE SECTOR			
1	1	Introduction to the Healthcare Sector - Importance of healthcare sector in the economy - Uniqueness of the health care market– Physician dominance and Supplier Induced Demand	
	2	Systems of medicine- Types of care: preventive, curative, promotive, rehabilitative, palliative – Ownership of hospitals-Layers of public and private facilities – Distribution of hospitals by ownership type in Kerala- Clinical Establishment Act – provider payment mechanisms – Public-funded insurance schemes (PMJAY, MEDISEP) – voluntary insurance	
2	MEASUREMENT OF HOSPITAL PERFORMANCE		
	1	Major Departments in a Hospital- Identifying Outputs and Inputs of Hospitals – Indicators of Operational Performance- Average Length of Stay (ALOS), Bed Occupancy Rate (BOR), Bed Turnover Rate (ToR), Turnover Interval (ToI),	
	2	Estimation - Pabon Lasso model for hospital performance assessment	
	COSTING OF HOSPITAL SERVICES		

3	1	Importance of costing in hospital management - Types of costs: fixed, variable, direct, indirect -Costing Methodology - Components of Cost - Operating and Capital Cost - Step down Costing
	2	Building Allocation rules - Step-by-step guide to conduct Step down costing- Activity based costing or procedure costing- Hands-on exercises to calculate Department wise Average Cost.

Essential Readings:

1. Arrow, K (1963) Uncertainty and the Welfare Economics of Medical Care American Economic Review Vol 53 No 5 941-973
2. Mills, A & Gilson L (1988) Health Economics for Developing Countries: A Survival Kit HEFP Working Paper 01/88, LSHTM, 1988
3. Langenbrunner, J., Cashin, C., & O'Dougherty, S. (Eds.). (2009). *Designing and implementing health care provider payment systems: how-to manuals* (Vol. 434). World Bank Publications.
4. Ramesh Bhat; Bharat Bhushan Verma, Elan Reuben (2001) Hospital Efficiency and Data Envelopment Analysis (DEA) An empirical analysis of district hospitals and grant-in-aid hospitals in Gujarat state of India, Working Paper No. 2001- 07- 05, IIM, Ahmedabad
5. Shepard, D. S., Hodgkin, D., & Anthony, Y. E. (2000). *Analysis of hospital costs: a manual for managers*. World Health Organization.
6. World Health Organisation (2000). The World Health Report: Health Systems: Improving Performance, Geneva: WHO.
7. Wallace Hopp & William S Lovejoy (2023) Hospital Operations: Principles of High Efficiency Health Care

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential Reading 1, 2	-
	2		-
2	1	Essential Reading 1, 2, 3	-
	2		-
3	1	Essential Reading 5, 6	-
	2		-
4	1	Essential Reading 4, 6, 7	-

Suggested Readings:

1. Hendriks, M. E., Kundu, P., Boers, A. C., Bolarinwa, O. A., Te Pas, M. J., Akande, T. M., ... & Tan, S. S. (2014). Step-by-step guideline for disease-specific costing studies in low-and middle-income countries: a mixed methodology. *Global health action*, 7(1), 23573.

2. Howard Barnum & Joseph Kutzin (1993) Public Hospitals in Developing Countries
John Hopkins University Press for the World Bank, Washington
3. World Bank (1993). World Development Report: Investing in Health. Oxford University Press, New York.

Assessment Rubrics:

Evaluation Type	MARKS
End Semester Evaluation Theory	50
Continuous Evaluation – Theory	
a) Test Paper- 1	
b) Test Paper-2	
c) Assignment	
d) Seminar	
e) Book/ Article Review	
f) Viva-Voce	
Continuous Evaluation -Practical	
Continuous Internal Evaluation – Total	25
Grand Total	75

KU4VACECO203: ECONOMICS OF CRIME AND CORRUPTION

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	VAC	200-299	KU4VACECO203	3	
Learning Approach (Hours/ Week)			Marks Distribution		
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total
	0	0	25	50	75
					1.5

Course Description:

This course explores the intricate relationship between economics and crime, delving into the various dimensions of criminal activities, their economic impacts, and the policy responses aimed at mitigating crime. Students will engage with theoretical models, empirical data, and case studies to understand the economic costs associated with crime, the functioning of illegal markets, the complexities of corruption and money laundering, and the global challenges posed by white-collar and cybercrimes.

Course Prerequisite: NIL

Course Outcomes:

At the end of the course, the student will be able to,

CO No.	Expected Outcome	Learning Domains
1	Gain a comprehensive understanding of the definitions, economic costs, and international comparisons of crime, allowing them to articulate the fundamental concepts of crime economics.	R, U
2	Acquire knowledge about the structure and functioning of illegal markets, including drug trading and the potential economic effects of drug legalization.	U, An
3	Develop the ability to apply economic models to analyze criminal behavior, including the use of opportunity costs, cost-benefit analysis, probabilities, and sensitivity analysis.	A
4	Understand the economic implications of corruption and money laundering, as well as the costs and causes of corruption from an economic perspective.	U

5	Critically evaluate anti-corruption strategies and their impact on development, as well as assess the economic burden of the criminal justice system.	E
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*Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓						
CO 2		✓					
CO 3			✓		✓		
CO 4			✓				
CO 5							✓

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
1	INTRODUCTION TO ECONOMICS OF CRIME	
	1	Crime definition, and economic costs of crime, international comparisons
	2	Parallel economy
	3	Basic concepts and statistics of the economics of crime
2	ECONOMIC IMPACT AND THE RATIONALITY OF CRIME	
	1	Economic impact and the rationality of crime
	2	Economic model of criminal behavior: Opportunity costs of crime, cost-benefit analysis, probabilities and sensitivity analysis
	3	The Burden of Crime: Economic allocation of criminal justice system Cost comparisons of prison and corrections systems
3	UNDERWORLD ECONOMY: EXPLORING ILLEGAL MARKETS, ORGANIZED CRIME, CORRUPTION, AND MONEY LAUNDERING	
	1	Illegal markets and organized crime
	2	Economics of drug trading and drug abuse
	3	The economic effects of legalizing a selected drug
	4	New psychoactive substances and trafficking in synthetic drugs
	5	Corruption and Money laundering <ul style="list-style-type: none"> a) Corruption and Money laundering b) Key international crime issue: White collar crimes, cybercrimes (phishing, hacking) c) Explore the costs and causes of corruption through an economic lens.

		d) Analyze anti-corruption strategies by government and their impact on development
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Essential Readings:

1. Leibsdorf, J. P., & Tonry, M. (Eds.). (2010). *Handbook of the economics of crime*. Oxford University Press.
2. Rose-Ackerman, S. (1999). *Corruption and governance: Causes, consequences, and reform*. Cambridge University Press.
3. Reuter, P., & Greenwalt, D. P. (2007). *Drugs and the world economy: Global policy dilemmas*. Oxford University Press.
4. National Crime Records Bureau (NCRB). (n.d.). *Crime statistics database*. Ministry of Home Affairs, Government of India. Retrieved from <https://ncrb.gov.in>

Bureau of Police Research and Development (BPRD). (n.d.). *Data and statistics on policing*. Ministry of Home Affairs, Government of India. Retrieved from <https://bprd.nic.in>

State Crime Records Bureau (SCRB). (n.d.). *State crime records database*. Government of India.

5. Interpol. (n.d.). *Crime areas*. Retrieved from <https://www.interpol.int/Crime-areas>
6. United Nations Office on Drugs and Crime (UNODC). (n.d.). *UNODC homepage*. Retrieved from <https://www.unodc.org/unodc/index.html>

1. Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential Readings 1 - 5	-
	2	Essential Readings 1 - 5	-
	3	Essential Readings 1 - 5	-
2	1	Essential Readings 1 - 5	-
	2	Essential Readings 1 - 5	-
	3	Essential Readings 1 - 5	-
3	1	Essential Readings 1 - 5	-
	2	Essential Readings 1 - 5	-
	3	Essential Readings 1 - 5	-
	4	Essential Readings 1 - 4	-
	5	Essential Readings 1 - 6	-

Suggested Readings:

1. Rose-Ackerman, S. (2018). *Corruption & purity*. Daedalus
2. Rose-Ackerman, S. and Palifka, B. J. (2016). *Corruption and government: Causes, consequences, and reform*. Cambridge University Press. Chapter 1
3. Svensson, J. (2005). Eight questions about corruption. *Journal of Economic Perspectives*
4. Bowler, S. and Donovan, T. (2016). Campaign money, congress, and perceptions of corruption. *American Politics Research*

5. Fadiman, J. A. (1986). A traveler's guide to gifts and bribes. *Harvard Business Review*
6. Escresa, L. and Picci, L. (2017). A new cross-national measure of corruption. *The World Bank Economic Review*
7. Duggan, M. and Levitt, S. D. (2002). Winning isn't everything: Corruption in sumo wrestling. *American Economic Review*
8. Fisman, R. and Miguel, E. (2007). Corruption, norms, and legal enforcement: Evidence from diplomatic parking tickets. *Journal of Political Economy*
9. Treisman, D. (2007). What have we learned about the causes of corruption from ten years of cross-national empirical research *Annu. Rev. Polit. Sci.*
10. Olken, B. A. and Barron, P. (2009). The simple economics of extortion: evidence from trucking in Aceh. *Journal of Political Economy*
11. Schnakenberg, K. E. and Turner, I. R. (2019). Signaling with reform: How the threat of corruption prevents informed policymaking. *American Political Science Review*
12. Malesky, E. J., Gueorguiev, D. D., and Jensen, N. M. (2015). Monopoly money: Foreign investment and bribery in vietnam, a survey experiment. *American Journal of Political Science*

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	50
Continuous Evaluation	25
a) Test Paper- 1	
b) Test Paper-2	
c) Assignment	
d) Seminar	
e) Book/ Article Review	
f) Viva-Voce	
g) Field Report	
Total	75

KU4VACECO204: ETHICS IN ACADEMIC WRITING

Semester	Course Type	Course Level	Course Code	Credits	
IV	VAC	200-299	KU4VACECO204	3	
Learning Approach (Hours/ Week)			Marks Distribution		Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total
	0	0	25	50	75
					1.5

Course Description:

This course is open to students from various disciplines. This course explores the ethical principles underlying academic writing. It covers topics such as integrity, responsible authorship, plagiarism prevention, citation styles, copyright laws, and ethical research practices. Students will develop skills in evaluating sources, paraphrasing, quoting, and applying ethical principles to their writing.

Course Prerequisite: NIL

Course Outcomes:

At the end of the course, the student will be able to;

CO No.	Expected Outcome	Learning Domains
CO 1	Understand the core principles of academic integrity, responsible authorship, and intellectual honesty.	R, U
CO 2	Identify different types of plagiarism and apply strategies to prevent it.	U, E
CO 3	Master proper citation styles (APA, MLA, Chicago) and reference formatting.	R, E
CO 4	Navigate copyright laws and ethically use published materials.	E, A
CO 5	Develop self-evaluation skills and strategies for preventing academic misconduct.	An, C

***Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)**

Mapping of Course Outcomes to PSOs

COs	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✓						✓
CO 2		✓					
CO 3			✓			✓	
CO 4					✓		
CO 5				✓			

COURSE CONTENTS

Contents for Classroom Transaction:

M O D U L E	U N I T	DESCRIPTION
1	ACADEMIC WRITING: CORE PRINCIPLES	
	1	Integrity and Authorship: Defining academic integrity, responsible authorship, and intellectual honesty.
	2	Understanding Plagiarism: Exploring different types of plagiarism and prevention strategies. act, detection software- Turnitin
	3	Citation Strategies: Mastering proper citation styles (APA, MLA, Chicago) and reference formatting
	4	Copyright and Fair Use: Navigating copyright laws and ethical utilization of published materials
2	RESEARCH ETHICS	
	1	Informed Consent and Privacy: Protecting participants in research and respecting their privacy.
	2	Responsible Data Practices: Learning ethical techniques for data collection, analysis, and reporting
	3	Identifying Misconduct: Recognizing data manipulation and research misconduct
	4	Collaboration Challenges: Understanding and addressing ethical hurdles in collaborative research
3	ETHICAL WRITING SKILLS	
	1	Evaluating Sources: Critically assessing information sources for credibility and relevance.
	2	Paraphrasing and Quoting: Mastering effective paraphrasing, summarizing, and quoting techniques.

	3	Applying Integrity: Putting ethical principles into practice across various writing tasks
	4	Reflection and Prevention: Developing self-evaluation skills and strategies for preventing academic misconduct.

Essential Readings:

1. Kirschner, L. G., & Mandell, S. R. (2015). *Writing with purpose: A rhetoric and reader* (14th ed.). Cengage Learning.
2. Barnet, S., & Cain, W. E. (2011). *A short guide to writing about literature* (12th ed.). Pearson Education.
3. American Chemical Society. (2006). *The ACS style guide: A manual for authors, editors, and publishers* (3rd ed.). Oxford University Press.
4. Modern Language Association of America. (2021). *MLA handbook* (9th ed.). The Modern Language Association of America.

1. Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential Reading 1 - 4	-
	2	Essential Reading 1 - 4	-
	3	Essential Reading 1 - 4	-
	4	Essential Reading 1 - 4	-
2	1	Essential Reading 1 - 4	-
	2	Essential Reading 1 - 4	-
	3	Essential Reading 1 - 4	-
	4	Essential Reading 1 - 4	-
3	1	Essential Reading 1 - 4	-
	2	Essential Reading 1 - 4	-
	3	Essential Reading 1 - 4	-
	4	Essential Reading 1 - 4	-

Suggested Readings:

1. Ahuja, Ram. Research Method, Rawat Publication, New Delhi, 2001
2. Art, RobertJ. and Jervis, Robert International Politics: Enduring Concepts and Contemporary Issues, Longman, 2010
3. Dhiman, Delhi, AK and SC Sinha. Research Methodology, EssEss Publication, New 2002
4. Fowler, Flyod J. (Jr). Survey Research Methods, Sage, Beverley Hills, 1984.
5. Gerring, John 2004. "What is a Case Study and What is it Good for?" American Political Science Review
6. Kuhn, Thomas, The Structure of Scientific Revolution, Chicago: University of

Chicago Press, 2012. (50th edition).

7. Popper, Press, 2013. Karl, Open Society and Its Enemies, New Jersey: Pentagon University
8. Kohari, New Age C. R and Garg, Research Methodology: Methods and Techniques, International Publisher, New Delhi, 2019 (4th edition).
9. A, MacIntyre. (1974). A Short History of Ethics. London.

Assessment Rubrics:

Evaluation Type	Marks
End Semester Evaluation	50
Continuous Evaluation	25
a) Test Paper- 1	
b) Test Paper-2	
c) Assignment	
d) Seminar	
e) Book/ Article Review	
f) Viva-Voce	
g) Field Report	
Total	75