

**FOUR-YEAR UNDERGRADUATE PROGRAMME IN SOCIAL SCIENCE- ECONOMICS**  
**DETAILS OF COURSES OFFERED**  
**LIST OF DISCIPLINE-SPECIFIC COURSES (DSC)**

SEMESTER	COURSE CODE	COURSE NAME	MARKS					CREDITS	HOURS/WEEK
			CCA		ESE		TOTAL		
			P	L	P	L			
I	KU1DSCSSE101	Introductory Microeconomics	0	30	0	70	100	4	4
	KU1DSCSSE102	<b>Economic Journalism</b>	0	30	0	70	100	4	4
	KU1DSCSSE103	Fundamentals of Economic Development	0	30	0	70	100	4	4
	KU1DSCSSE104	Economics for Beginners	0	30	0	70	100	4	4
II	KU2DSCSSE105	Introductory Macroeconomics	0	30	0	70	100	4	4
	KU2DSCSSE106	Nutrition Economics	0	30	0	70	100	4	4
	KU2DSCSSE107	Demography	0	30	0	70	100	4	4
	KU2DSCSSE108	Foundations of Economic Analysis	0	30	0	70	100	4	4
III	KU3DSCSSE201	Intermediate Microeconomics	0	30	0	70	100	4	4
	KU3DSCSSE202	Introduction to Social Science	0	30	0	70	100	4	4
	KU3DSCSSE203	Economics of Care and Ageing	0	30	0	70	100	4	4
	KU3DSCSSE204	Fundamentals of Social Science Research	10	25	15	50	100	4	5
	KU3DSCSSE205	Basic Analytical Tools for Economics	0	30	0	70	100	4	4
IV	KU4DSCSSE206	Intermediate Macroeconomics	0	30	0	70	100	4	4
	KU4DSCSSE207	Environmental Economics	0	30	0	70	100	4	4
	KU4DSCSSE208	Economics of Discrimination	0	30	0	70	100	4	4
V	KU5DSCSSE301	International Economics	0	30	0	70	100	4	4
	KU5DSCSSE302	Heterodox Economics	0	30	0	70	100	4	4
	KU5DSCSSE303	Statistical Tools for Economics	0	30	0	70	100	4	4
VI	KU6DSCSSE304	Development Issues of Indian Economy I	0	30	0	70	100	4	4
	KU6DSCSSE305	Mathematical Tools for Economics	0	30	0	70	100	4	4

	<b>KU6DSCSSE306</b>	Introductory Econometrics	0	30	0	70	100	4	4
<b>VII</b>	<b>KU7DSCSSE401</b>	Advanced Microeconomics I	0	30	0	70	100	4	4
	<b>KU7DSCSSE402</b>	Advanced Macroeconomics I	0	30	0	70	100	4	4
	<b>KU7DSCSSE403</b>	Advanced Quantitative Techniques for Economic Analysis	0	30	0	70	100	4	4
	<b>KU7DSCSSE404</b>	Development Issues of Indian Economy II	0	30	0	70	100	4	4
	<b>KU7DSCSSE405</b>	Readings in Political Economy	0	30	0	70	100	4	4
<b>VIII</b>	<b>KU8DSCSSE406</b>	Advanced Microeconomics II	0	30	0	70	100	4	4
	<b>KU8DSCSSE407</b>	Advanced Macroeconomics II	0	30	0	70	100	4	4
	<b>KU8DSCSSE408</b>	Applied Econometrics	0	30	0	70	100	4	4
	<b>KU8DSCSSE409</b>	Advancements in Economic Research	0	30	0	70	100	4	4
	<b>KU8DSCSSE410</b>	Behavioral Economics	0	30	0	70	100	4	4
<b>Internship in Major Discipline/Research Project in Major Discipline</b>									
<b>VI</b>	<b>KU6INTSSE301</b>	(Credit for internship to be awarded only at the end of Semester 6)		50	-	50	2		
<b>VIII</b>	<b>KU8RPHSSE401</b>	Project (in Honours Programme)		60	140	200	8		
<b>VIII</b>	<b>KU8RPHSSE402</b>	Research Project (in Honours with Research Programme)		90	210	300	12		

**FOUR-YEAR UNDERGRADUATE PROGRAMME IN SOCIAL SCIENCE -ECONOMICS LIST OF  
DISCIPLINE SPECIFIC ELECTIVE COURSES  
DETAILS OF COURSES OFFERED**

SEMESTER	COURSE CODE	COURSE NAME	MARKS					TOTAL	CREDITS	HOURS/WEEK
			CCA		ESE					
			P	L	P	L				
V	KU5DSESE301	Contours of Economic Ideas	0	30	0	70	100	4	4	
	KU5DSESE302	Economic Geography	0	30	0	70	100	4	4	
	KU5DSESE303	Economics of Care Economy	0	30	0	70	100	4	4	
	KU5DSESE304	Economics of Growth and Development	0	30	0	70	100	4	4	
VI	KU6DSESE305	Gender Economics	0	30	0	70	100	4	4	
	KU6DSESE306	Managerial Economics	0	30	0	70	100	4	4	
	KU6DSESE307	Cultural Economics	0	30	0	70	100	4	4	
	KU6DSESE308	Institutional Economics	0	30	0	70	100	4	4	
	KU6DSESE309	Labour Economics	0	30	0	70	100	4	4	
	KU6DSESE310	Intellectual Property Rights	0	30	0	70	100	4	4	
VIII	KU8DSESE401	Economics of Health and Education	0	30	0	70	100	4	4	
	KU8DSESE402	Reading in Global Trade	0	30	0	70	100	4	4	
	KU8DSESE403	Economics of Innovation	0	30	0	70	100	4	4	
<b>LISTS OF MDC/ SEC/ VAC IN SOCIAL SCIENCE-ECONOMICS</b>										
<b>MULTIDISCIPLINARY COURSES</b>										
I	KU1MDCSSE101	Economics in Daily Life	0	25	0	50	75	3	3	
I	KU1MDCSSE102	Economics for Competitive Examination	0	25	0	50	75	3	3	
II	KU2MDCSSE103	Issues in Indian Economic Development	0	25	0	50	75	3	3	

<b>II</b>	KU2MDCSSE104	Economics of Startup and Entrepreneurship	0	25	0	50	75	3	3
<b>VALUE ADDED COURSES</b>									
<b>III</b>	KU3VACSSE201	Environmental Sensitisation and Disaster Management	0	25	0	50	75	3	3
<b>III</b>	KU3VACSSE202	Academic Writing in Social Science	0	25	0	50	75	3	3
<b>IV</b>	KU4VACSSE203	Economics of Crime and Corruption	0	25	0	50	75	3	3
<b>IV</b>	KU4VACSSE204	Ethics in Academic Writing	0	25	0	50	75	3	3
<b>SKILL ENHANCEMENT COURSES</b>									
<b>IV</b>	KU4SECSSE201	Data Analysis with Spreadsheet	20	10	30	15	75	3	5
<b>IV</b>	KU4SECSSE202	Hospital Economics	10	15	15	35	75	3	4
<b>V</b>	KU5SECSSE302	Experiencing Indian Stock Market	10	15	15	35	75	3	4
<b>V</b>	KU5SECSSE303	Logistic and Supply Chain Management	10	15	15	35	75	3	4
<b>V</b>	KU5SECSSE304	Reading Economic Survey and Union Budget	10	15	15	35	75	3	4
<b>VI</b>	KU6SECSSE305	Goods and Service Tax	10	15	15	35	75	3	4
<b>VI</b>	KU6SECSSE306	Finance and Technology	10	15	15	35	75	3	4
<b>VI</b>	KU6SECSSE307	Databases and Basic Computational Techniques For Data Analysis	10	15	15	35	75	3	4



**KU3DSCSSE201: INTERMEDIATE MICROECONOMICS**

Semester	Course Type	Course Level	Course Code			Credits	Total Hours
III	DSC-Major	200-299	KU3DSCSSE201			4	60
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)	
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total		
4	-	-	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

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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:**

<b>M O D U L E</b>	<b>U N I T</b>	<b>DESCRIPTION</b>	<b>HOURS</b>
<b>1</b>	<b>CONSUMER BEHAVIOUR ANALYSIS</b>		<b>15</b>
	1	Consumer preferences	2
		a) Market baskets	
		b) Basic assumptions about consumer preferences: Completeness, consistency, transitivity and more is better than the less	
	2	Budget constraints - Budget line	1
		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	1	

		a) Shape of indifference curves: convexity and diminishing marginal rate of substitution	
	5	Consumer choices: Utility Maximisation with indifference curves	2
	6	Price effect bifurcation for normal, inferior and Giffen good (as a special case)	5
		a) Income effect and substitution effect (Hicks and Slutsky)	
		b) Demand curve from price consumption curve	
	7	Revealed preference: with two budget lines	2
	<b>ANALYSIS OF PRODUCTION AND COST</b>		<b>15</b>
<b>2</b>	1	Production with one variable input (labour): the law of variable proportions	2
	2	Production with two variable inputs (labour and capital) with Isoquants	2
		a) Substitution among inputs and diminishing marginal rate of technical substitution	
	3	Return to a scale - Isoquant approach	2
	4	Empirical production function – Cobb-Douglas Production function	2
	5	Cost in the long run: user cost of capital	4
		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			
	<b>ANALYSIS OF COMPETITIVE MARKETS</b>		<b>10</b>
<b>3</b>	1	Characterising perfectly competitive markets	1
	2	Profit maximisation by a competitive firm: TC and TR approach, MC and MR approach	2
	3	Short run profit maximisation by a competitive firm - shut down rule	1
	4	Short run supply curve of a competitive firm – the short run market supply curve	1
	5	Long run equilibrium and profit maximisation with zero economic profit	2
	6	Competitive factor market	3

		a) Demand for input, Derived demand, Marginal Productivity of Factor,	
		b) Supply of inputs	
		c) Equilibrium in a competitive factor market	
	<b>ANALYSIS OF MARKET POWER</b>		<b>10</b>
<b>4</b>	1	Conceptualizing Monopoly	6
		AR and MR under monopoly	
		Monopolist's output decision – Rule of thumb for pricing	
		Equilibrium of a multi-plant firm	
		Price discrimination – first degree, second degree and third-degree price discrimination	
		Monopoly power – Sources of monopoly power	
		Social cost of monopoly – Concept of Dead Weight Loss	
	2	Monopsony and Bilateral monopoly (Concepts only)	1
	3	Monopolistic competition: the makings of monopolistic competition	3
		a) Equilibrium in the short run and long run	
b) Economic inefficiency: excess capacity			
<b>5</b>	<b>Teacher Specific Module</b>		<b>10</b>
	<b>Directions:</b> <i>Exercises from Schaum's Outlines</i>		-
	<i>This module would preferably be set as a work-based module keeping Schaum's Outlines as basic reference without overlapping contents in the Introductory Microeconomics. The content would be preferably based on the modules in the current syllabus or any other topic so as to give better foundations for advanced learning of the course in the subsequent semesters.</i>		10

**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	

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	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:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>70</b>
Continuous Evaluation		<b>30</b>
a)	Test Paper- 1	6
b)	Test Paper-2	6
c)	Assignment	9
d)	Seminar/Debate	5
e)	Book/ Article Review	-
f)	Viva-Voce/quiz	4
g)	Field Report	-
<b>Total</b>		<b>100</b>

**KU3DSCSSE202: INTRODUCTION TO SOCIAL SCIENCE**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
III	DSC- Major	200-299	KU3DSCSSE202	4	60

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
4	-	-	30	70	100	2

**Course Description:** This course aims to introduce economics students to the interdisciplinary nature of social sciences and their relationship with economics. Through an exploration of different constituent disciplines of social science like political science, psychology, and sociology, students will develop a nuanced understanding of societal structures, human behaviour, and the broader context in which economic decisions are made.

**Course Prerequisite:** NIL

**Course Outcomes:**

CO No.	Expected Outcome	Learning Domains
1	To familiarize students with various approaches to social science	R,U,E
2	To understand the interplay between social, political, and economic factors in shaping human behaviour and societal structures.	U,R
3	To cultivate critical thinking skills through the examination of diverse perspectives and methodologies within the social sciences.	U,A,,E
4	To grasp the philosophy of critical perspectives in social sciences	U, An ,C
5	To identify the Importance of Rationality Assumption in Economics	U

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

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6	PSO7
CO 1	✓						
CO 2	✓	✓		✓			

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CO 3	✓	✓		✓	✓		
CO 4	✓	✓		✓			
CO5	✓	✓					

**COURSE CONTENTS**

**Contents for Classroom Transaction:**

M O D U L E	U N I T	DESCRIPTION	HOURS 60
		<b>INTRODUCTION TO SOCIAL SCIENCE</b>	<b>12</b>
<b>1</b>	1	a) Definitions and Scope of social science	4
		b) . Importance of social science in contemporary world	
	2	Approaches to studying social sciences	8
		a) Multidisciplinarity,	
		<b>b)Interdisciplinarity</b>	
	<b>c)Trans-disciplinarity</b>		
		<b>POLITICAL SCIENCE AND ECONOMICS</b>	<b>13</b>
<b>2</b>	1	The role of government in the economy	2
	2	Political economy: patterns of ownerships and characteristics of different economic systems- capitalism, socialism, mixed economy.	4
	3	Case study: Does the political system of the land affect their economic growth? Comparison of economic growth between North and South Korea, Nogales,Arizona, U.S and Nogales,Mexico, Republic of Congo,etc	7
		<b>PSYCHOLOGY AND ECONOMICS</b>	<b>12</b>
<b>3</b>	1	Behavioural economics: psychology and decision-making- definition and scope	3
	2	Assumption of rationality in economics	2
		a) Importance of rationality assumption	
		b) Drawbacks of rationality assumption.	
3	Heuristics and biases displayed in judgment and decision-making.	7	

		a) Availability bias, preference bias, present bias, status quo bias, herding, framing,	
		b) Social psychology and economic behavior.	
		<b>CRITICAL PERSPECTIVES IN SOCIAL SCIENCE</b>	<b>13</b>
<b>4</b>	1	Gender perspective: Gender as a social construct	2
	2	Institutional perspective:	4
		a) Concept- social and economic institutions	
		b) Classification - 'formal and informal' and 'hard and soft institutions - ideological position	
	3	Environmental perspective: Notion of development	2
	4	Queer politics: Concept and basic ideological position (discussion)	2
	5	Subaltern perspective: Concept and basic ideological position	3
		<b>TEACHER SPECIFIC MODULE</b>	<b>10</b>
		<i>Directions</i>	
<b>5</b>		<p><b>1.Field Trips:</b> Visit local businesses or industries and discuss how their operations reflect the economic system of the country. Compare privately-owned enterprises with state-owned enterprises</p> <p><b>2.Community Engagement:</b> Invite guest speakers from LGBTQ+ organizations for discussions on current issues and advocacy strategies</p> <p>3.Show Documentaries and films depicting gender issues and activism.</p> <p><b>4.Experimental Design:</b> Design experiments to test the influence of biases on decision-making processes</p>	

**Essential Readings:**

1. Nicolescu, Basarab. "Multidisciplinarity, Interdisciplinarity, Indisciplinarity, and Transdisciplinarity: Similarities and Differences." RCC Perspectives, no. 2, 2014, pp. 19–26.JSTOR, <http://www.jstor.org/stable/26241230>.
2. K, GEORGE VARGHESE. "Rethinking Social Sciences and Humanities in the Contemporary World." Economic and Political Weekly, vol. 46, no. 31, 2011, pp. 91–98.JSTOR, <http://www.jstor.org/stable/23017881>.
3. Acemoglu, Daron, and James A. Robinson. Why Nations Fail: The Origins of Power, Prosperity and Poverty. Profile Books, 2013.
4. Economics in Context Initiative. 2021. "Comparative Economic Systems: Capitalism and Socialism in the 21st Century." An ECI Teaching Module on Social and Economic Issues, Global Development Policy Center, Boston University. chapters: 1,2.
5. Lu, Rongxia, and Fei Hu. "The Development of Rationality in Economics." International Research in Economics and Finance, vol. 6, no. 1, 2022.
6. Nick Wilkinson and Matthias Klaes, An Introduction to Behavioral Economics 2nd edition, Palgrave Macmillan, 2012.
7. Marchbank, J., & Letherby, G. (2014). Introduction to gender: Social science perspectives. Routledge.
8. Ruffolo, D. V. (2016). Post-queer politics. Routledge.

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9. Buttel, F. H. (1987). New directions in environmental sociology. Annual review of sociology, 13(1), 465-488.
10. Salunkhe, S.A. 2003. "The Concept of Sustainable Development: Root, Connotations and Critical Evaluation," Social Change Vol. 33, No. 1, pp. 67-80.
11. David Ludden (ed.), Reading Subaltern Studies : Critical History, Contested Meaning, and the Globalisation of South Asia (Delhi, Permanent Black, 2001).

**Reference Distribution:**

Module	Unit	Reference No.	Page Nos.	Remarks
<b>1</b>	1	Essential Readings 1,2	19-16, 91-98	--
	2	Essential Readings 1,2	19-16, 91-98	--
	3	Essential Readings 1,2	19-16, 91-98	--
<b>2</b>	1	Essential Readings 3,4	168-170, 3-10	--
	2	Essential Readings 3,4	168-170, 3-10	--
	3	Essential Readings 3,4	168-170, 3-10	--
<b>3</b>	1	Essential Readings 6	Chapters 1,2	--
	2	Essential Readings 5	1-6	--
	3	Essential Readings 5,6	Chapters 1 & 2,1-6	--
<b>4</b>	1	Essential Readings 7	--	--
	2	Essential Readings 8	--	--
	3	Essential Readings 9	465-488	--
	4	Essential Readings 10	67-80	--
	5	Essential Readings 11	--	--

**Assessment Rubrics:**

Evaluation Type		Marks
End Semester Evaluation		<b>70</b>
Continuous Evaluation		<b>30</b>
a)	Test Paper- 1	6
b)	Test Paper-2	6
c)	Assignment	5
d)	Seminar	5
e)	Book/ Article Review	-
f)	Viva-Voce	3
g)	Field Report	5
<b>Total</b>		<b>100</b>

**KU3DSCSSE203: ECONOMICS OF CARE AND AGEING**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
III	DSC-Minor	200-299	KU3DSCSSE203	4	60

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
4	-	-	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	HOURS
<b>1</b>	<b>INTRODUCTION TO CARE ECONOMICS AND AGEING</b>		<b>9</b>
	1	Definition and Scope of Care Economics	2
	2	Types of Care: Formal and Informal - Economic Significance of Care Work	1
	3	Ageing Population Trends in India and Kerala	4
	4	Demographic Transition and Ageing - Implications of Ageing Population on Economy and Society	2
<b>2</b>	<b>ECONOMIC THEORIES OF AGEING</b>		<b>16</b>
	1	Economic Theories of Ageing: Life Cycle Hypothesis, Dependency Ratio, and Social Support	4
	2	Feminist Economics Perspective on Care Work	4
	3	Life Course Perspective on Ageing	5
	4	Challenges and Opportunities of Population Ageing	3
<b>3</b>	<b>CARE ECONOMY AND SOCIAL POLICIES IN KERALA</b>		<b>11</b>

	1	Overview of Care Economy in Kerala - Kerala's Model of Elderly Care: Initiatives, Challenges, and Best Practices	3
	2	Pension Schemes and Social Security for Elderly in Kerala	2
	3	Long-Term Care Services: Home-Based Care, Day Care Centers, and Residential Facilities	4
	4	Elderly Rights and Legal Frameworks in Kerala	2
	<b>AGEING AND ECONOMIC DEVELOPMENT IN KERALA</b>		<b>14</b>
<b>4</b>	1	Economic Impact of Ageing on Kerala's Development	4
	2	Demographic Dividend and Demographic Transition	5
	3	Strengthening Social Protection Systems	2
	4	Integrating Ageing Agenda into Development Plans	3
<b>5</b>	Teacher Specific Module		<b>10</b>
	<i>Directions: Activity based with discussion, interactions and assignment works</i>		-
	<i>The module may be designed as activity based one with emphasis to expert talks with discussions on the issue, assignment submission after old age home visits, report submission after interaction with palliative care units and the so forth.</i>		

**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:**

<b>Module</b>	<b>Unit</b>	<b>Reference No.</b>	<b>Remarks</b>
<b>1</b>	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	
<b>2</b>	1	Essential Readings 2 and 6	
	2	Essential Readings 2 and 6	
	3	Essential Readings 2 and 6	
	4	Essential Readings 2 and 6	
<b>3</b>	1	Essential Readings 7 and 8	
	2	Essential Readings 7 and 8	
	3	Essential Readings 7 and 8	
<b>4</b>	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:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>70</b>
Continuous Evaluation		<b>30</b>
a)	Test Paper- 1	6
b)	Test Paper- 2	6
c)	Assignment	9
d)	Seminar/Debate	5
e)	Book/ Article Review	-
f)	Viva-Voce/Quiz	4
g)	Field Report	-
<b>Total</b>		<b>100</b>

**KU3DSCSSE204: FUNDAMENTALS OF SOCIAL SCIENCE RESEARCH**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours	
III	DSC-Minor	200-299	KU3DSCSSE204	4	60	
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	1	-	35	65	100	1.5

**Course Description:**

*This course equips students with essential skills to analyse theoretical frameworks, evaluate historical and cultural influences, and identify appropriate research modalities. The curriculum covers the philosophical foundations and evolution of social science research, including the challenges of positive science. Students will learn to formulate research questions and hypotheses, conduct critical literature reviews, and create well-structured research proposals. Emphasizing methodological diversity, the course ensures that students become aware of various methodologies in different social contexts.*

**Course Prerequisite: NIL**

**Course Outcomes:**

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

Cos	Expected Outcome	Learning Domains
1	Critically analyse various theoretical frameworks in the social sciences and understand their implications for research	R, U
2	Assess how historical and cultural contexts have shaped social science research	R, U
3	The students will be able to develop clear, specific, and original research designs by formulating relevant questions and hypotheses.	A, C
4	The students should be able to conduct thorough and critical literature reviews.	R, U, A
5	The students should be able to develop well-structured research proposals, integrating the various components coherently.	A, C

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

**Mapping of Course Outcomes to PSOs**

*FYUGP SOCIAL SCIENCE-ECONOMICS*

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	HOURS 60
1	<b>THE FOUNDATIONS OF SOCIAL SCIENCE RESEARCH</b>		<b>12</b>
	1	Philosophy of Social Science	3
		a) Rationalism in Social Sciences	
		b) Empiricism and its Problems	
	2	Positive Science	4
		a) Challenges in Positive Science	
		b) Facts, Values and Objectivity	
	3	Evolution of Social Sciences	3
		a) Historical Construction of social Science	
	4	Distinctions among Social Science	2
2	<b>TYPES OF RESEARCH</b>		<b>11</b>
	1	Exploring Research Types	2
	2	Basic vs. Applied Research	2
	3	Descriptive and Analytical Approaches	2
	4	Qualitative and Qualitative Approach	2
	5	Problems in social science research: Validity, Reliability, Bias	3
3	<b>RESEARCH DESIGN AND LITERATURE REVIEW</b>		<b>12</b>
	1	Literature Review	5
		a) Scope and Focus	
		b) Theoretical Framework	
		c) conceptual Framework	
		d) Writing of Review of Literature	
	2	Research Design: Research Questions, Hypotheses, Identifying variables	4
		a) Concepts of Research Design	
		b) Components of Research Design	
		c) Classic Experimental Research Design	
3	Research Questions, Hypothesis and Identifying Variables	3	
4	<b>RESEARCH PROPOSAL AND FUNDAMENTALS OF RESEARCH METHODOLOGY</b>		<b>15</b>
	1	Research Proposal	4
		a) Research Proposal in quantitative and qualitative research	
	2	Components of a Research Proposal	4
		a) Abstract, Review of Literature, Problem Statements, Objectives, Hypothesis	
b) Data, Methodology, Reference			

	3	Fundamentals of Research Methodology	7
		a) Bridging Theory and Research	
		b) Methodological Diversity in Social Science Research	
5	<b>TEACHER SPECIFIC MODULE</b>		10
	1	<b>Develop Skills in Research Design and Literature Analysis</b> Directions: Students should formulate effective research questions and hypotheses, and conduct critical literature reviews	
	2	<b>Craft a Robust Research Proposal</b> Directions: Students should craft research proposals, emphasizing coherence from abstract to bibliography.	

**Essential Readings:**

1. Wallerstein (1996). "Open the Social Sciences: Report of the Gulbenkian Commission on the Restructuring of the Social Sciences". Vistaar, New Delhi.
2. Kumar, Ranjit (1999). Research Methodology: A Step-By-Step Guide for Beginners. Delhi: Sage.
3. John Mouton (1996), Basic Concepts in Methodology of Social Science, HSRC Publishers, South Africa.
4. Risjord, Mark (2014). Philosophy of Social Science: A Contemporary Introduction. London: Routledge.
5. Bryman, A. & Bell Edward (2021). Social Research Methods. Oxford University Press.
6. Benton, T., & Craib, I. (2011). Philosophy of social science, The philosophical Foundations of Social Thought, Palgrave Macmillan.
7. Jarvie, I. C., & Zamora Bonilla, J. (Eds.). (2011). Sage handbook of philosophy of social science. Sage Publications.
8. Frankfort-Nachmias, C., Nachmias, D., & DeWard, J. (2015). Research methods in social science. Macmillan.

**Reference Distribution:**

Module	Unit	Reference
1	1	Essential Reading 6
	2	Essential Reading 6&7
	3	Essential Reading 1
	4	Essential Reading 1
2	1	Essential Reading 5
	2	Essential Reading 2
	3	Essential Reading 2
	4	Essential Reading 5
	5	Essential Reading 7
3	1	Essential Reading 2
	2	Essential Reading 8 & 2
	3	Essential Reading 2
4	1	Essential Reading 2
	2	Essential Reading 2 & 3
	3	Essential Reading 2
5	1	Essential Reading 2 & 3
	2	Essential Reading 2& 3

**Suggested Readings:**

1. Weber, M. (1949). The Methodology of the Social Sciences. New York: Macmillan.
2. Booth, W. C., Colomb, G. G., & Williams, J. M. (2008). The Craft of Research. University of Chicago Press.

**Assessment Rubrics**

<b>Evaluation Type</b>		<b>MARKS</b>
End Semester Evaluation-Theory		50
End Semester Evaluation – Practical		15
<b>End Semester Evaluation – Total</b>		<b>65</b>
Continuous Evaluation – Theory		25
a)	Test Paper- 1	6
b)	Test Paper-2	6
c)	Assignment	5
d)	Seminar	5
e)	Book/ Article Review	-
f)	Viva-Voce	3
Continuous Evaluation -Practical		10
<b>Continuous Internal Evaluation – Total</b>		<b>35</b>
<b>Grand Total</b>		<b>100</b>

- **Employability for the Course:** Research Assistant in Various Institutions

**KU3DSCSSE205: BASIC ANALYTICAL TOOLS FOR ECONOMICS**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
III	DSC- Minor	200-299	KU3DSCSSE205	4	60

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
4	-	-	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:**

<b>M O D U L E</b>	<b>U N I T</b>	<b>DESCRIPTION</b>	<b>HOURS</b>
<b>1</b>	<b>INTRODUCTORY STATISTICS</b>		<b>7</b>
	1	Meaning and definition of statistics- Descriptive and inferential statistics- Role and functions of statistics- Limitations.	2
	2	Quantitative variable- Continuous and discrete variables- Qualitative variable- Nominal, ordinal, interval and ratio levels of measurement.	1
	3	Data-Types of data- Primary and secondary data with their merits and demerits- Techniques of primary data collection- Sources of secondary data.	2
	4	Population- sample- Sample size- Census vs sample surveys- Need for sampling	2
<b>2</b>	<b>SUMMARISING AND DESCRIBING DATA</b>		<b>20</b>
	1	Frequency distribution - Procedure for construction frequency distribution- Relative frequency distribution - Cumulative frequency distribution - Constructing discrete and continuous frequency distribution.	4
	2	Graphic and diagrammatic presentation of data - Bar diagram, Pareto chart, pie chart, histogram, frequency polygon and ogives.	4
	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.	7
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.	5	
<b>3</b>	<b>MATHEMATICS AND ECONOMICS</b>		<b>8</b>
	1	Importance of mathematics in economics-Mathematical economics and non-mathematical economics- Limitations of mathematical economics.	2

	2	Variables, constants and parameters- Equations and identities.	1
	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.	5
	<b>FUNCTIONS AND GRAPHS</b>		<b>15</b>
4	1	Meaning and representation of set- Types and operations on set- Venn diagram- Ordered pairs- Cartesian product of two sets.	4
	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.	6
	3	Economic functions- Demand, supply, utility, production, cost, revenue, profit and consumption.	2
	4	Applications of functional equations- Equilibrium, determining cost, revenue and profit.	3
5	<b>TEACHER SPECIFIC MODULE</b>		<b>10</b>
	<i>Directions:</i> Skewness and Kurtosis		
	This module would be preferably based on the theoretical understanding and works on Skewness and Kurtosis		

**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. Whitte, R. S., & Whitte, 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	

<b>3</b>	1	Essential readings 3	
	2	Essential readings 3	
	3	Essential readings 3, 6 and 7	
<b>4</b>	1	Essential readings 3	
	2	Essential readings 3 and 7	
	3	Essential readings 2	
	4	Essential readings 3	
<b>5</b>		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:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>70</b>
Continuous Evaluation		<b>30</b>
a)	Test Paper- 1	6
b)	Test Paper-2	6
c)	Assignment	9
d)	Seminar	5
e)	Book/ Article Review	-
f)	Viva-Voce	4
g)	Field Report	-
<b>Total</b>		<b>100</b>

**KU3VACSSE201: ENVIRONMENTAL SENSITISATION AND DISASTER MANAGEMENT**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
III	VAC	200-299	KU3VACSSE201	3	45

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	0	0	25	50	75	1.5 Hours

**Course Description:**

*This course provides for all the undergraduate students to acquire basic knowledge about natural resources, eco system and the major environmental challenges which presently threaten our global environment. The course is designed to sensitize the learners on the need for healthy environment for sustainable development. The course also intended to create awareness that the life of human beings is an integral part of environment and to inculcate the skills required to protect environment from all sides. It covers vital aspects related to environmental degradation. Apart from classroom teaching, this course includes field work and basic life skill practices related to protect from natural disasters.*

**Course Prerequisite: NIL**

**Course Outcomes:**

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

COs	Expected Outcome	Learning Domains
1	Understand the major environmental issues and recognize the importance of conservation of natural resources	R, U
2	Analyse the prominent cases and laws related to environmental issues	An
3	Adopt sustainable life style approach for resolution of environmental problems faced by society	A
4	Acquire and apply the necessary theoretical and practical knowledge and prepare to respond effectively during an emergency	A

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

**Mapping of Course Outcomes to PSOs**

*FYUGP SOCIAL SCIENCE-ECONOMICS*

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:**

<b>M O D U L E</b>	<b>U N I T</b>	<b>DESCRIPTION</b>	<b>HOURS 45</b>
<b>1</b>	<b>INTRODUCTION TO ENVIRONMENTAL EDUCATION</b>		<b>12</b>
	1	Importance of environmental studies- concept of Eco system- Components of eco system- functions of eco-system- Natural Resources available in the environment: renewable and non-renewable	2
	2	Relationship between human society and environment- Environmental effects of human Behaviour- Environment-Economy Interlinkages	3
	3	Bio-diversity and conservation- threats to bio-diversity- need to conserve natural resources	3
	4	Sustainable development: concept- definitions, indicators, measurements - circular economy model for a sustainable environment	4
<b>2</b>	<b>SENSITIVITY ENVIRONMENTAL ISSUE, COMMUNITY PARTICIPATION AND LEGAL FRAMEWORK</b>		<b>14</b>
	1	Concept of Environmental Sensitivity	1
	2	Sensitive environmental issues at the local, national and global level: Climate change, types of pollutions, depletion of natural resources, Problem of solid Waste management- causes and effects	3
	3	Control measures for various types of pollution: water conservation methods, solid waste management, 3 R's (Reduce, Reuse & Recycle) effluent charges, emission permits, Pigouvian tax, subsidies and economic incentives - Major environmental movements in India: Chipko, Appiko, Silent Valley and Narmada Bachao Andolan	5

	4	Relevance of environmental legislation- Environmental Laws: Environmental Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and Control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Land Acquisition Rehabilitation and Resettlement Act - International Agreements: Montreal and Kyoto Protocols and Conservation on Biological Diversity	5
	<b>INTRODUCTION TO DISASTER MANAGEMENT</b>		<b>11</b>
	1	Concepts of disaster management- natural and manmade disasters- Flood, Earthquake, Cyclones and Landslides - causes and effects	3
3	2	Disaster vulnerability profile of India: Case studies on environment and society: Bhopal gas tragedy-Coca-Cola Factory at Plachimada- Endosulfan Tragedy- Tsunami,2004- - Bhuj earthquake, 2001, Brahmapuram Fire 2023, Flood and Landslides in Kerala 2018 & 2019	4
	3	Phases of disaster management: pre and post disaster stage -brief description	2
	4	Disaster mitigation organizations in national and international levels- Role and services of Voluntary organisations	2
	<b>TEACHER SPECIFIC MODULE</b>		
	<b>Directions:</b> Field Visit and Presentation of Experience		<b>8</b>
4	<i>Visit to a local polluted site- urban/rural/agricultural/industrial or visit to an area to document environmental assets: river, forest, flora, fauna etc. and report and presentation of field visit/outreach activities to be maintained.</i>		

**Essential Readings:**

1. Anubha Kaushik & C P Kaushik, Perspectives in Environmental Studies, New Age International (P) Ltd Publishers, 6<sup>th</sup> Edition
2. S.P Misra & S N Pandey, Essential Environmental Studies, Ane Books India New Delhi 2008
3. N K Uberoi, Environmental Studies, Excel Books, New Delhi 2007
4. Surinder Deswal & Anupama Deswal, A Basic Course in Environmental Studies, Dhanupat Rai Co(P)Ltd, Delhi
5. Shradha Sinha, Manisha Shukla & Ranjana Shukla, A Text book of Environmental Studies, AITBS Publishers & Distributors, New Delhi 2005
6. Gurdeep R Chatwal & Harish Sharma, Madhu Arora, A Textbook of Environmental Studies(Environmental Sciences), Himalaya Publishing House, Mumbai 2005
7. G Tyler Miller, Jr. Environmental Science: Working with the Earth, Cengage Learning India Pvt Ltd 11<sup>th</sup> edn. New Delhi

8. Anil Kumar De & Amab Kumar De, Environmental Studies, New Age International(p) Ltd Publishers , New Delhi, 2009
9. Karpagam M, Environmental Economics: A Text book, Sterling Publishers Pvt Ltd, New Delhi, 2014
10. Janet M Thomas & Scott J Callan, Environmental Economics, Cengage Learning India Pvt Ltd, New Delhi, 2009
11. V K Ahluwalia & Sunita Malhotra, Environmental Science, Ane Books Pvt Ltd, New Delhi 2013
12. M M Sulphey, Disaster Management, PHI Learning Pvt Ltd, Delhi 2016
13. Jagbir Singh, Disaster Management: Future Challenges and Opportunities, IK International Publishing House Pvt Ltd, New Delhi 2007
14. Paramjith S Jaswal & Nishtha Jaswal, Environmental Law: Environment Protection, Sustainable Development and the Law, Allahabad Law Agency, Delhi 2009
15. M Prasanthrajan & P P Mahendran, A Text book on Ecology & Environmental Science, Agrotech Publishing Academy, Udaipur 2006
16. V K Subramanian, A Text book in Environmental Science, Narosa Publishing House, New Delhi 2007
17. Jadhav, H & Bhosale V M, Environmental Protection and Laws, Himalaya Publication House, New Delhi
18. Pardeep Singh, Anamika Yadav, Indranil Chowdhuri and Ravindra Pratap Singh, Green Circular Economy: A Paradigm for Sustainable development. Springer

**Reference Distribution:**

<b>Module</b>	<b>Unit</b>	<b>Reference No.</b>	<b>Remarks</b>
<b>1</b>	1	Essential Readings 1 to 6	-
	2	Essential Readings 1 to 7	-
	3	Essential Readings 1 to 7	-
	4	Essential Readings 18	-
<b>2</b>	1	Essential Readings 1	-
	2	Essential Readings 1 & 8	-
	3	Essential Readings 1, 9 & 10	-
	4	Essential Readings 1 &10	-
<b>3</b>	1	Essential Readings 1, 11 &12	-
	2	Essential Readings 1, 12,13 & 14	-
	3	Essential Readings 1, 12, 15, 16 &17	-
	4	Essential Readings 1, 12, 15, 16 &17	-

**Suggested Readings:**

1. Lester R Brown, Eco-Economy-Building an Economy for the Earth, Orient Longman Pvt Ltd, Himayatnagar 2004
2. Nick Hanley, Jason F Shogren & Ben White, Environmental Economics in Theory &Practice, Macmillan India Ltd, New Delhi 2005

3. Arvind Kumar, Disaster Management- Recent Approaches, Institute for Sustainable Development , Lucknow & Anmol Publication Pvt Ltd, New Delhi, 2010
4. Tushar Bhattacharya, Disaster Science & Management, Tata McGraw Hill Education Pvt Ltd, New Delhi 2012
5. Richard T Wright, Environmental Science – Toward a Sustainable Future, Prentice Hall of India Pvt Ltd, 9<sup>th</sup> edn. New Delhi 2007
6. S C Santra, Environmental Science, New Central Book Agency Pvt Ltd, Kolkata 2011
7. Gurdeep R Chatwal & Harish Sharma, Madhu Arora, A Textbook of Environmental Studies(Environmental Sciences), Himalaya Publishing House, Mumbai 2005
8. B S Chauhan, Environmental Studies, University Science Press(An Imprint of Laxmi Publications Pvt Ltd) New Delhi 2011
9. Benny Joseph, Environmental Studies 2<sup>nd</sup> edn., Tata McGraw Hill Edn. Pvt Ltd, New Delhi 2009
10. Gouri Suresh, Environmental Studies & Ethics, International Publishing House Pvt.Ltd, New Delhi 2007
11. N S Subrahmanyam & AVSS Sambamurty, Ecology 2<sup>nd</sup> edn. Narosa Publishing House, New Delhi 2008
12. S V S Rana, Essentials of Ecology & Environmental Science, Prentice Hall of India Pvt Ltd, New Delhi 2005
13. Asthana, D. K. Text Book of Environmental Studies. S. Chand Publishing
14. K,N Nair Antonyto Paul & Vineetha Menon, Water Insecurity, Institutions & Livelihood Dynamics A Study in Plachimada, Kerala

**Assessment Rubrics:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>50</b>
Continuous Evaluation		<b>25</b>
a)	Test Paper- 1	10
b)	Test Paper-2	-
c)	Assignment	5
d)	Seminar	-
e)	Book/ Article Review	-
f)	Viva-Voce	-
g)	Field Report	10
<b>Total</b>		<b>75</b>

**KU3VACSSE202: ACADEMIC WRITING IN SOCIAL SCIENCE**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
III	VAC	200-299	KU3VACSSE202	3	45

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	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

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5	Understand and apply ethical principles in academic publishing and peer review.	U, 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:**

MODULE	UNIT	DESCRIPTION	HOURS
<b>1</b>	<b>OVERVIEW OF ACADEMIC WRITING AND ITS IMPORTANCE IN SOCIAL SCIENCES</b>		<b>10</b>
	1.1	Introduction to Academic Writing	2
		a) What is Academic Writing?	
		b) Importance of Academic Writing in Social Sciences	
	1.2	Understanding Different Types of Academic Writing	4
		a) Essays and Research Papers	
		b) Book Reviews and Textual Analysis	
		c) Case Studies, Literature Reviews, Project Reports, and Proposals	
	1.3	Approaches to Academic Writing	4
		a) Expository, descriptive, persuasive	
b) Analytical, critical/evaluative			
c) Narrative/reflective			
<b>2</b>	<b>LITERATURE REVIEW AND FORMULATING THE RESEARCH QUESTION</b>		<b>10</b>

	2.1	Writing reviews of academic literature	7
		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
<b>GENERAL GUIDELINES FOR WRITING A RESEARCH PAPER</b>			<b>9</b>
<b>3</b>	3.1	Introduction to Structure, Citations and Referencing	6
		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	3
<b>FUNDAMENTALS OF RESEARCH ETHICS AND PEER REVIEW PROCESS IN ACADEMIC PUBLISHING</b>			<b>8</b>
<b>4</b>	4.1	Research Ethics	2
		a) Ethics in research and publication	
		b) Academic misconduct: falsification, fabrication, plagiarism	
	4.2	Peer review process	6
		a) Double-blind, single-blind, and open models	
		b) Practical peer review exercises	
		c) Manuscript preparation and submission guidelines	
		d) Responding to reviewer comments	
<b>Teacher Specific Module</b>			<b>8</b>
<b>5</b>	Direction		
	<i>Writing a Formal Research Paper in the Social Sciences</i>		
	Students are required to write and submit a research proposal following the necessary formalities of proposal making.		

**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	<b>50</b>
Continuous Evaluation	<b>25</b>

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a)	Test Paper- 1	10
b)	Test Paper-2	-
c)	Assignment	-
d)	Seminar	-
e)	Book/ Article Review	5
f)	Viva-Voce	-
g)	Research Proposal	10
<b>Total</b>		<b>75</b>

**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.

**KU4DSCSSE206: INTERMEDIATE MACROECONOMICS**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	DSC-Major	200-299	KU4DSCSSE206	4	60

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
4	-	-	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 Domains
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

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5	Evaluate the effectiveness of policy measures in reducing unemployment or controlling inflation in different economic environments	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	UNI T	DESCRIPTION	HOURS 60
<b>1</b>	<b>MONEY SUPPLY AND DEMAND FOR MONEY</b>		<b>10</b>
	1	a) Supply of money; definition, kinds and functions of money. b) measures of money supply; high powered money and money multiplier	4
	2	Demand for money- Classical Theories of Money: Fisher's and Cambridge Versions of Quantity Theory of Money.	3
	3	Keynesian liquidity preference theory – indeterminacy of rate of interest in the liquidity preference theory – the liquidity trap.	3
<b>2</b>	<b>INFLATION AND UNEMPLOYMENT</b>		<b>14</b>
	1	Inflation, types of inflation, measures of inflation	2
	2	Economic Effects of inflation	1
	3	Theories of inflation- classical, Neo-classical and, Keynesian theories of inflation	3
	4	Monetarist view on inflation	1
	5	Modern theories of inflation-Demand pull and cost push inflation	1
	6	Unemployment, measurement of unemployment rate and different types of unemployment	3
7	Okun's Law	1	

	8	Inflation and the rate of unemployment – The Phillips Curve	2
<b>3</b>	<b>BASIC IS-LM MODEL</b>		<b>14</b>
	1	Integration of Real and Monetary sector	2
	2	Product market equilibrium – IS curve and real sector	3
	3	Money market equilibrium -LM curve and monetary sector	3
	4	General equilibrium – integration of ISLM, limitations of the basic IS-LM model.	4
	5	Factors determining the slope and shifts in ISLM curves (Algebraic analysis of ISLM and General equilibrium is required)	2
<b>4</b>	<b>THEORIES OF TRADE CYCLES AND MACRO-ECONOMIC POLICIES</b>		<b>12</b>
	1	Trade cycles – Meaning and definitions of trade cycles – phases of trade cycles	1
	2	Theories of trade cycles- Hawtrey’s theory – Hayek’s theory – Keynesian theory – Hicks’ theory- Samuelson’s theory.	5
	3	Macroeconomic policy- meaning and scope, objectives of macroeconomic policies	2
	4	Monetary policy measure, instruments and limitation	2
	5	Fiscal policy measures-meaning – instruments and limitation	2
<b>5</b>	<b>TEACHER SPECIFIC MODULE</b>		<b>10</b>
	<i>This module would preferably be set as a work-based module keeping Schaum’s Outlines of Macroeconomics as basic reference without overlapping contents in the Introductory Macroeconomics. The content would be preferably based on the modules in the current syllabus or any other topic so as to give better foundations for advanced learning of the course in the subsequent semesters.</i>		10

**Essential Readings:**

1. Mankiw, N.G.: Elementary Macroeconomics, Worth Publishers, 7th edition, 2010. •
2. Dwivedi, D.N. (2006) Macroeconomics – Theory & Policy, Tata Mcgraw Hill Publishing Company Microeconomics Theory & Application Pearson.
3. Mukherjee, Sampat. *Maco economics A global Text*. New Central Book Agency (P) Ltd, 2013
4. Backus, David, Patrick J. Kehoe, and Finn Kydland. "International business cycles: Theory and evidence.
5. Domanic Salvatore, Schaums’ Outlines, Macroeconomics, Latest Edition

**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	Preferably

**Suggested Readings:**

1. Mukherjee, Sampat. *Analytical macroeconomics: from Keynes to Mankiw*. New Central Book Agency (P) Ltd, 2021.

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2. Froyen Richard T. *Macroeconomics-Theories and Policies*, Macmillan Pub., Company, NY.
3. Dornbusch R, Stanley Fischer, and Richard Startz, *Macroeconomics*, McGraw Hill Inc., NY.
4. D'Souza, Errol. *Macroeconomics*. Pearson Education India, 2009.

**Assessment Rubrics:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>70</b>
Continuous Evaluation		<b>30</b>
a)	Test Paper- 1	6
b)	Test Paper-2	6
c)	Assignment	9
d)	Seminar/Debate	5
e)	Book/ Article Review	-
f)	Viva-Voce/quiz	4
g)	Field Report	-
<b>Total</b>		<b>100</b>

**KU4DSCSSE207: ENVIRONMENTAL ECONOMICS**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	DSC-Major	200-299	KU4DSCSSE207	4	60

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
4	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:**

<b>M O D U L E</b>	<b>U N I T</b>	<b>DESCRIPTION</b>	<b>HOURS 60</b>
<b>1</b>	<b>ECONOMY AND THE NATURAL ENVIRONMENT</b>		<b>12</b>
	1	Why study Environmental economics? a) Inter linkages between the economy and environment b) First and Second law of thermodynamics and material balance model	3
	2	Micro foundations of Environmental Economics (welfare economics) a) Classification and characterization of natural resources	2
	3	The relationship between economic development and environmental quality. a) Environmental Kuznets curve b) Environmental adjust of national income	4
	4	Components and Indicators of Sustainable Development a) Strong and weak sustainability b) Sustainable development goals	3
	<b>MODELLING ENVIRONMENTAL PROBLEMS AND SOLUTIONS</b>		<b>10</b>
	1	Review of market theory and price determination in an environmental context	2
	2	Market failure of pollution using both a public goods model and externality theory	2
	3	Allocation of property right and Coase theorem	2

	4	Economic solutions to environmental problems	4	
		a) Modelling a deposit refund system and pollution permit system		
		b) Modelling a deposit refund system and pollution permit system		
<b>VALUATION OF ENVIRONMENTAL GOODS AND SERVICES</b>			<b>14</b>	
3	1	Theory of environmental valuation and conceptual basis of its methods	4	
		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	10	
		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		
	<b>ENVIRONMENTAL PROBLEMS AND POLICIES</b>			<b>14</b>
4	1	Global Environmental issues	3	
		a) Economics of climate change		
		b) Climate change and food security		
	2	International summits on combating climate change	3	
		a) UN climate change conference-latest		
	3	International trade and environment	4	
		a) Various International Environmental Agreements b) Basic idea about Montreal and Kyoto Protocol and Talks on Climate Change		
	4	India's environmental policies	4	
		a) Implementation of environmental regulations and laws in India		
		b) Role of government agencies and non-governmental organizations in environmental conservation		
	<b>TEACHER SPECIFIC MODULE</b>			<b>10</b>
	5	<i>Direction: Study Tour (Maximum of 4 Days) - Integrate Environmental Economics into Classroom Practice</i>		-
<i>Students may be directed to visit different ecologically important places in Kerala to identify the effects of govt policies on Environmental sustainability.</i>				

	<i>The hours allocated may be used for individual / group presentations on their experience.</i>	
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**Essential Readings:**

1. Environmental Economics and Management – Theory, Policy and Applications – Scott J Callan and Janet M Thomas
2. Environmental Economics: An Introduction" by Barry C. Field and Martha K. Field
3. Natural Resource and Environmental Economics" by Roger Perman, Yue Ma, Michael Common, and David Maddison
4. Valuing Environmental Changes: Theoretical and Empirical Perspectives" edited by J. Braden and C. Kolstad
5. Climate Change: What Everyone Needs to Know" by Joseph Romm
6. International Environmental Law and Policy" by David Hunter, James Salzman, and Durwood Zaelke
7. Environmental Law and Policy in India" by Ranganath Misra and Shalu Nigam
8. "Environmental Management: Text and Cases" by Anil Kumar De and S. Shivaraman

**Reference Distribution:**

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

**Suggested Readings:**

1. Hanley N, Shogren J.F. &White B. Environmental Economics in Theory and Practice, Macmillan
2. Kolstad C, Environmental Economics, OUP
3. Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/Addison Wesley, 3rd edition, 2003.
4. Maureen L. Cropper and Wallace E. Oates, 1992, —Environmental Economics:

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A Survey,|| Journal of Economic Literature, Volume 30:675-740.

5. The Politics of Climate Change: Environmental Dynamics in International
6. Internet on recent environment agreements

**Assessment Rubrics:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>70</b>
Continuous Evaluation		<b>30</b>
a)	Test Paper- 1	6
b)	Test Paper-2	6
c)	Assignment	4
d)	Seminar/Debate	4
e)	Book/ Article Review	-
f)	Viva-Voce	-
g)	Field Report / Study Tour Report	10
<b>Total</b>		<b>100</b>

**KU4DSCSSE208: ECONOMICS OF DISCRIMINATION**

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
IV	DSC-Major	200-299	KU4DSCSSE208		4	60
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
4	-	-	30	70	100	2

**Course Description:** The course studies how socio-economic situations in the society are shaped by the factors like race, religion, gender and ethnicity. The course will give a brief overview of major theories regarding discrimination and is designed in such a way to enable students to address the issues faced by down-trodden and marginalised people in the society. The course is designed in such a way by giving special focus to Kerala.

**Course Prerequisite:** NIL

**Course Outcomes:**

CO No.	Expected Outcome	Learning Domains
1	Familiarise with the basic elements, methodologies, and ideological underpinnings of Economics of discrimination	R, U, E
2	Apply economic theories to think critically on various economic issues that encounters in daily life and finding solutions for the same	R,U,E
3	Assessing the impact of public policy upon alleviating discrimination faced by marginalised sections of the society	R,U,E,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	✓	✓	✓	✓	✓		

### COURSE CONTENTS

**Contents for Classroom Transaction:**

M O D U L E	U N I T	DESCRIPTION	HOURS 60
<b>1</b>	<b>INTRODUCTION TO ECONOMICS OF DISCRIMINATION</b>		<b>12</b>
	1	a) Meaning, definition ,nature and scope	2
		b) Subject matter of economics of discrimination	1
	2	Economic theories of Discrimination	
		a) Neoclassical and Institutional views	3
		b) Views of Becker, Akerlof, Herbert Blumer’s theory of discrimination, Arrow and Phelps	4
		c) Limitations of economics of discrimination.	2
<b>2</b>	<b>FORMS OF DISCRIMINATION</b>		<b>13</b>
	1	Factors of Production-Causes and forms of discrimination- Race, Ethnicity, Gender, Religion and caste.	4
	2	Occupational Segregation, Inclusive Growth. Sen’s approach to social exclusion.	3
	3	Inequality and its various forms.	3
	4	Global Inequality Index- Perpetuation of Inequality in India.	3
<b>3</b>	<b>DISCRIMINATION IN THE REAL WORLD</b>		<b>13</b>
	1	Discrimination faced by African Americans, Non whites in South Africa, Dalit Community in India	4
	2	Affirmative Action	6
		a) The concept of economic minorities. Constitutional provisions for reservation in India.	
		b) EWS Reservation in India.	

	c) Constitutional bodies in India- SC, ST, Backward Community commissions in India.	
3	Ambedkar and Gandhian views on economics of caste discrimination.	3
<b>ECONOMIC DISCRIMINATION IN KERALA</b>		<b>12</b>
1	Kerala Development Model -Sustainability of Kerala model.	2
2	Growing inequality and development trajectory of the state since 1980s	2
3	Socioeconomic struggles of women in Kerala. Gender disparities in Kerala	2
4	Interdistrict disparities in Kerala	1
5	Socio-Economic Status of Scheduled Castes in Kerala	2
6	Poverty among Scheduled tribes in Kerala- Tribal development policies adopted by Government.	3
<b>TEACHER SPECIFIC MODULE</b>		<b>10</b>
	<i>Directions</i>	
5	1. Review the newspaper and other information sources and identify articles highlighting discrimination based on age, ethnicity, caste, religion, or sexual orientation. Submit a short (three-page) report and present it in the classroom 2. Visit the places dominantly residing by SC/ST etc and prepare a report.	

**Essential Readings:**

1. Becker, G. (1971). The Economics of Discrimination, Chicago, University of Chicago Press, 2<sup>nd</sup> Edition.
2. Cain,G.(1984). The economics of discrimination: Part 1. Focus. University of Wisconsin-Madison, Institute for Research on Poverty
3. Sen, A. K. (2000). Social exclusion: Concept, application and scrutiny”, Working Paper, Social Development Paper No. 1, Asian Development Bank.
4. Deshpande, Ashwini. (2000). Does Caste Still Define Disparity? A Look at Inequality in Kerala, India. American Economic Review. 90. 322-325. 10.1257/aer.90.2.322.
5. Ambedkar, B. R. (2008). “Annihilation of Caste”, 1935, Paperback Version.
6. Martínez Rodríguez, María & Marcelino-Aranda, Mariana, Saseendran, Prasanth & Nitheesh, Kumar. (2020). Contradictions of the development model of the state

- of Kerala, India: the tribal population Contradicciones del modelo de desarrollo del estado de Kerala, India: la población tribal. 41(12).
7. Suresh, Swathy. (2024). Human Rights of Women in Kerala: A Socio-economic analysis through Kerala State Child Rights Commission.
  8. Nandeesh. H.K. (2014). Mapping Kerala Model of Development. Abhudaya Newsletter of UGC-UPE Focus Area II volume 2 (4).
  9. A. P, Sreerag., & Vakulabharanam, V. (2015). High growth and rising inequality in Kerala since the 1980s. Oxford Development Studies, 44(4), 367–383. <https://doi.org/10.1080/13600818.2015.1111320>
  10. Anand Jayakrishnan, K. (2016). Kerala Model of Development: Issue of Sustainability. Int. J. of Adv. Res. 4 (Nov). 556-560] (ISSN 2320-5407). [www.journalijar.com](http://www.journalijar.com)
  11. Iyer, S. (2018). The economics of religion in India. The Belknap Press of Harvard University Press
  12. Narain, Prem & Rai, SC & Sarup, Shanti. (1994). Inter-district Disparities in Socio-economic Development in Kerala. Journal of Indian Society of Agricultural Statistics. 46. 362-377.
  13. Haseena, V.A. (2015). Poverty and livelihood problems among the scheduled tribes in Kerala-A Study on Attappady. Journal of Poverty, Investment and Development. <https://api.core.ac.uk/oai/oai:ojs.localhost:article/24518>
  14. Thorat, Sukhadeo. (2024). Insights from economic theories of discrimination: on sources, motives, consequences and policies. Journal of Social and Economic Development. 10.1007/s40847-023-00317-1.
  15. Himanshu, Himanshu. (2019). Inequality in India: A review of levels and trends. 10.35188/UNU-WIDER/2019/676-0.

**Reference Distribution:**

Module	Unit	Reference No.	Remarks
<b>1</b>	1	Essential readings 1 & 14	--
	2	Essential readings 14	--
<b>2</b>	1	Essential readings 2 & 11	--

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	2	Essential readings 3	--
	3	Essential readings 2	--
	4	Essential readings 15	--
<b>3</b>	1	Essential readings 1	--
	2	Essential readings 1	--
	3	Essential readings 5	--
<b>4</b>	1	Essential readings 6,8 &10	--
	2	Essential readings 9	--
	3	Essential readings 7	--
	4	Essential readings 12	
	5	Essential readings 4	
	6	Essential readings 13	

**Suggested Readings:**

1. Akerlof, A. G., “The Economics of Caste and of the Rat Race and other Woeful Tales”, Quarterly Journal of Economics, 90, 59-617, 1976.
2. Akerlof, G. A. and Kranton, R. E., “Identity Economics: How Our Identities Shape Our Work, Wages and Well-being”, Princeton University Press, 2011.

**Assessment Rubrics:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>70</b>
Continuous Evaluation		<b>30</b>
a)	Test Paper- 1	6
b)	Test Paper-2	6
c)	Assignment	6
d)	Seminar/Debate	5
e)	Book/ Article Review	-
f)	Viva-Voce/quiz	
g)	Field Report	7
<b>Total</b>		<b>100</b>

**KU4SECSSE201: DATA ANALYSIS WITH SPREADSHEET**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	SEC	200-299	KU4SECSSE201	3	45

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
1	2	0	30	45	75	1.5 Hrs

**Course Description:**

*This course provides essential Excel skills tailored for economic data analysis. Students learn data import, manipulation, advanced formulas, and visualization techniques. Through practical projects on real economic issues, students gain hands-on experience and develop critical thinking skills. The course also emphasizes data ethics, ensuring students are equipped for responsible data-driven decision-making in economic contexts.*

**Course Prerequisite: NIL**

**Course Outcomes:**

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

COs	Expected Outcome	Learning Domains
1	Confidently import, clean, and organize economic data in Excel spreadsheets.	R, U, A
2	Apply relevant formulas and functions to analyse and summarize data, drawing relevant economic conclusions.	R, U, A
3	Create various data visualizations (charts, graphs, etc.) to effectively communicate their findings to different audiences.	U, A, C
4	Gain familiarity with advanced Excel techniques for more complex data analysis tasks encountered in economic research.	R, U, A
5	Demonstrate an understanding of data ethics and responsible data-driven decision making in the economic context.	A, 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
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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	HOURS 45
		<b>EXCEL FOUNDATIONS AND DATA IMPORT</b>	<b>10</b>
<b>1</b>	<b>1</b>	a) Launching Excel, navigating the interface, basic operations. b) Importing data from different sources (CSV, text files, web), creating and managing tables. Applying data validation to ensure data accuracy and consistency. c) Exploring the Ribbon and menus, customizing your Excel environment. d) Learning basic file management: saving, sharing, and version control. e) Practicing working with multiple worksheets and workbooks in your data analysis.	10
		<b>DATA MANIPULATION AND FORMULAS</b>	<b>9</b>
<b>2</b>	<b>1</b>	a) Sorting and filtering data based on various criteria for efficient analysis. b) Mastering basic formulas and functions: sum, average, count, max, min, etc. c) Using logical functions (if, and, or) for conditional calculations and data segmentation d) Applying lookup functions (VLOOKUP, MATCH) to integrate data from different sources. e) Exploring advanced functions like SUMIF, AVERAGEIF, COUNTIF for targeted calculations. f) Creating and using names for ranges and cells in excel	9
		<b>DATA VISUALIZATION AND ANALYSIS</b>	<b>9</b>
<b>3</b>	<b>1</b>	a) Creating different chart types (bar, line, pie, scatter) based on your data. b) Customizing charts for visual impact: titles, labels, legends, data labels, formatting. c) Data visualization and interpretation of charts.	9

		d) Descriptive statistics (mean, median, standard deviation, variance): calculation and interpretation.	
<b>4</b>	<b>ESSENTIAL DESCRIPTIVE STATISTICS IN EXCEL</b>		<b>9</b>
	1	Measures of Central Tendency:	3
		a) In-depth exploration of mean, median, mode, and weighted averages	
		b) Calculation and interpretation of percentiles and quartiles for understanding data distribution	
	2	Measures of Variability:	3
		a) Variance and standard deviation: mastering calculations and Interpretations.	
		b) Range, inter-quartile range, and coefficient of variation for understanding data spread.	
		c) Introduction to skewness and kurtosis for assessing data symmetry	
	3	Advanced Data Analysis Functions	3
		a) Mastery of VAR.P, STDEV.P, SKEW, KURT, and other descriptive statistics functions	
b) Correlation analysis using Pearson's correlation coefficient and scatter plots			
<b>5</b>	<b>TEACHER SPECIFIC MODULE</b>		<b>8</b>
	<i>Directions: Activity Based on Excel</i>		-
	<ul style="list-style-type: none"> <li>● Choosing an actual economic issue relevant to India (e.g., inflation, trade, poverty).</li> <li>● Accessing and exploring relevant economic datasets from Indian or international sources.</li> <li>● Applying your learned skills to analyze the chosen economic issue using Excel.</li> <li>● Creating visualizations and descriptive statistics to support your analysis of the economic issue.</li> <li>● Preparing a final project report summarizing your findings and economic insights.</li> <li>● Class Presentations: Sharing your projects, receiving feedback, and engaging in discussions on real-world data analysis applications.</li> </ul>		

**Essential Readings:**

1. Basic Computational Techniques for Data Analysis An Exploration in MS Excel, 2nd Edition (D Narayana, Sharad Ranjan, Nupur Tyagi)
2. Microsoft Excel 2019 Step by Step by Curtis Frye, Pearson Education
3. Microsoft Excel 2019: Data Analysis & Business Modelling by Wayne Winston, PHI Learning

4. Don't Fear the Spreadsheet: A Beginner's Guide to Overcoming Excel's Frustrations by Tyler Nash, Bill Jelen, Kevin Jones, Tom Urtis, Holy Macro! Books

**Reference Distribution:**

Module	Unit	Reference No.	Remarks
<b>1</b>	1	Essential Readings 1 - 4	
	2	Essential Readings 1 - 4	
	3	Essential Readings 1 - 4	
	4	Essential Readings 1 - 4	
<b>2</b>	1	Essential Readings 1 - 4	
	2	Essential Readings 1 - 4	
	3	Essential Readings 1 - 4	
	4	Essential Readings 1 - 4	
<b>3</b>	1	Essential Readings 1 - 4	--
	2	Essential Readings 1 - 4	--
	3	Essential Readings 1 - 4	--
	4	Essential Readings 1 - 4	
<b>4</b>	1	Essential Readings 1 - 4	
	2	Essential Readings 1 - 4	
	3	Essential Readings 1 - 4	
	4	Essential Readings 1 - 4	

**Assessment Rubrics:**

Evaluation Type		MARKS
End Semester Evaluation-Theory		15
End Semester Evaluation – Practical		30
<b>End Semester Evaluation – Total</b>		<b>45</b>
Continuous Evaluation – Theory		10
a)	Test Paper- 1	5
b)	Test Paper-2	-
c)	Assignment	5
d)	Seminar	-
e)	Book/ Article Review	-
f)	Viva-Voce	-
Continuous Evaluation -Practical		20
<b>Continuous Internal Evaluation – Total</b>		<b>30</b>
<b>Grand Total</b>		<b>75</b>

**KU4SECSSE202: HOSPITAL ECONOMICS**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	SEC	200-299	KU4SECSSE202	3	45

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
2	1	-	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. The course will also include practical sessions to help the students apply the concepts they learn.*

**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

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4	Evaluate cost analysis and analyse department wise average cost and procedure costing	An, E
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**\*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			✓				

**COURSE CONTENTS**

**Contents for Classroom Transaction:**

<b>M O D U L E</b>	<b>U N I T</b>	<b>DESCRIPTION</b>	<b>HOURS 45</b>
		<b>SIGNIFICANCE OF THE HEALTHCARE SECTOR</b>	<b>12</b>
<b>1</b>	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	5
	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	7
<b>2</b>		<b>MEASUREMENT OF HOSPITAL PERFORMANCE</b> (including practical sessions)	<b>13</b>
	1	Major Departments in a Hospital- Identifying Outputs and Inputs of Hospitals – Indicators of Operational Performance- Average Length of	6

		Stay (ALOS), Bed Occupancy Rate (BOR), Bed Turnover Rate (ToR), Turnover Interval (ToI),	
	2	Practical Sessions on Estimation - Pabon Lasso model for hospital performance assessment	7
	<b>COSTING OF HOSPITAL SERVICES</b> (including practical sessions)		<b>12</b>
<b>3</b>	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	6
	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.	6
<b>4</b>	<b>Teacher Specific Module</b> <b>Direction: PRACTICAL: UNDERTAKE A CASE STUDY IN A NEARBY HOSPITAL</b>		<b>8</b>
	1	Work out the Operational Indicators- Calculate the Department wise Average Cost using either step down method or through Activity based costing.	

**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		35
End Semester Evaluation – Practical		15
<b>End Semester Evaluation – Total</b>		<b>50</b>
Continuous Evaluation – Theory		15
a)	Test Paper- 1	10
b)	Test Paper-2	-
c)	Assignment	5
d)	Seminar	-
e)	Book/ Article Review	-
f)	Viva-Voce	-
Continuous Evaluation -Practical		10
<b>Continuous Internal Evaluation – Total</b>		<b>25</b>
<b>Grand Total</b>		<b>75</b>

**KU4VACSSE203: ECONOMICS OF CRIME AND CORRUPTION**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	VAC	200-299	KU4VACSSE203	3	45

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	-	-	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

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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	HOURS
<b>1</b>	<b>INTRODUCTION TO ECONOMICS OF CRIME</b>		<b>8</b>
	1	Crime definition, and economic costs of crime, international comparisons	3
	2	Parallel economy	2
	3	Basic concepts and statistics of the economics of crime	3
<b>2</b>	<b>ECONOMIC IMPACT AND THE RATIONALITY OF CRIME</b>		<b>10</b>
	1	Economic impact and the rationality of crime	2
	2	Economic model of criminal behavior: Opportunity costs of crime, cost-benefit analysis, probabilities and sensitivity analysis	4
	3	The Burden of Crime: Economic allocation of criminal justice system Cost comparisons of prison and corrections systems	4
<b>3</b>	<b>UNDERWORLD ECONOMY: EXPLORING ILLEGAL MARKETS, ORGANIZED CRIME, CORRUPTION, AND MONEY LAUNDERING</b>		<b>19</b>
	1	Illegal markets and organized crime	3
	2	Economics of drug trading and drug abuse	3
	3	The economic effects of legalizing a selected drug	3
	4	New psychoactive substances and trafficking in synthetic drugs	3
	5	Corruption and Money laundering	7
		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	
<b>4</b>	<b>TEACHER SPECIFIC MODULE</b>		<b>8</b>
	<i>Directions: Students may be directed to identify study reports on issues related to economics of crime and make presentations. Discussions may be initiated on the selected issues and evaluated.</i>		

**Essential Readings:**

1. Handbook of the Economics of Crime &quot; edited by John P. Leubsdorf and Michael
2. Corruption and Governance: Concepts, Causes, Consequences by Susan Rose- Ackerman
3. Drugs & the World Economy: Global Policy Dilemmas by Peter Reuter and David P Greenwalt (2007)
4. Databases on crime.
  - NCRB
  - BPRD
  - SCRB
5. Interpol crime areas <http://www.interpol.int/Crime-areas>
6. UNODC <http://www.unodc.org/uno dc/index.html>.

**7. Reference Distribution:**

Module	Unit	Reference No.	Remarks
<b>1</b>	1	Essential Readings 1 - 5	-
	2	Essential Readings 1 - 5	-
	3	Essential Readings 1 - 5	-
<b>2</b>	1	Essential Readings 1 - 5	-
	2	Essential Readings 1 - 5	-
	3	Essential Readings 1 - 5	-
<b>3</b>	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:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>50</b>
Continuous Evaluation		<b>25</b>
a)	Test Paper- 1	10
b)	Test Paper-2	-
c)	Assignment	-
d)	Seminar	5
e)	Book/ Article Review	-
f)	Viva-Voce	-
g)	Field Report	10
<b>Total</b>		<b>75</b>

**KU4VACSSE204: ETHICS IN ACADEMIC WRITING**

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
IV	VAC	200-299	KU4VACSSE204	3	45

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	0	0	25	50	75	1.5 (Hours)

**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**

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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	HOURS
<b>1</b>	<b>ACADEMIC WRITING: CORE PRINCIPLES</b>		<b>13</b>
	1	Integrity and Authorship: Defining academic integrity, responsible authorship, and intellectual honesty.	3
	2	Understanding Plagiarism: Exploring different types of plagiarism and prevention strategies. act, detection software- Turnitin	3
	3	Citation Strategies: Mastering proper citation styles (APA, MLA, Chicago) and reference formatting	4
	4	Copyright and Fair Use: Navigating copyright laws and ethical utilization of published materials	3
<b>2</b>	<b>RESEARCH ETHICS</b>		<b>12</b>
	1	Informed Consent and Privacy: Protecting participants in research and respecting their privacy.	3
	2	Responsible Data Practices: Learning ethical techniques for data collection, analysis, and reporting	3
	3	Identifying Misconduct: Recognizing data manipulation and research misconduct	3
	4	Collaboration Challenges: Understanding and addressing ethical hurdles in collaborative research	3
<b>3</b>	<b>ETHICAL WRITING SKILLS</b>		<b>12</b>
	1	Evaluating Sources: Critically assessing information sources for credibility and relevance.	3
	2	Paraphrasing and Quoting: Mastering effective paraphrasing, summarizing, and quoting techniques.	3
	3	Applying Integrity: Putting ethical principles into practice across various writing tasks	3
	4	Reflection and Prevention: Developing self-evaluation skills and strategies for preventing academic misconduct.	3
<b>4</b>	<b>TEACHER SPECIFIC MODULE</b>		<b>8</b>

	<p>Directions: This module can focus on engaging students in some of the following selected topics;</p> <ul style="list-style-type: none"> <li>● Pedagogical Approaches: Strategies for teaching academic integrity, responsible authorship, and ethical writing practices.</li> <li>● Creating Assignments: Designing assignments that promote ethical writing and critical thinking.</li> <li>● Providing Feedback: Effective feedback techniques to address plagiarism and promote ethical writing.</li> <li>● Classroom Discussions: Facilitating discussions on ethical dilemmas in writing and research.</li> <li>● Academic Integrity Policies: Implementing and enforcing academic integrity policies in the classroom.</li> <li>● Professional Development: Resources for teachers to enhance their own understanding of ethical writing practices.</li> </ul>	10
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**Essential Readings:**

1. Writing with Purpose: A Rhetoric and Reader by Laurie G. Kirszner and Stephen R. Mandell
2. A Short Guide to Writing about Literature by Sylvan Barnet and William Cain
3. The ACS Style Guide: A Manual for Authors, Editors, and Publishers by American Chemical Society
4. MLA Handbook by Modern Language Association

**5. Reference Distribution:**

Module	Unit	Reference No.	Remarks
<b>1</b>	1	Essential Reading 1 - 4	-
	2	Essential Reading 1 - 4	-
	3	Essential Reading 1 - 4	-
	4	Essential Reading 1 - 4	-
<b>2</b>	1	Essential Reading 1 - 4	-
	2	Essential Reading 1 - 4	-
	3	Essential Reading 1 - 4	-
	4	Essential Reading 1 - 4	-
<b>3</b>	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:**

<b>Evaluation Type</b>		<b>Marks</b>
End Semester Evaluation		<b>50</b>
Continuous Evaluation		<b>25</b>
a)	Test Paper- 1	10
b)	Test Paper-2	-
c)	Assignment	5
d)	Seminar	-
e)	Book/ Article Review	10
f)	Viva-Voce	-
g)	Field Report	-
<b>Total</b>		<b>75</b>