KANNUR UNIVERSITY
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(Abstract)

Scheme and Syllabus of the courses of Fifth and Sixth Semester BA Economics Programme - Prepared in tune with KU-SLL-FYUGP Regulations - Approved and Implemented under the Private Registration scheme of the School of Lifelong Learning w.e.f 2024 admission - Orders issued

ACADEMIC C SECTION

ACAD C/ACAD C5/1577/2025 Dated: 18.09.2026

Read:-1. U.O No. ACAD C/ACAD C5/1577/2025 dtd: 01-02-2025
2. U.O No. ACAD C/ACAD C5/1577/2025 dtd: 30.12.2025
3. U.O No. ACAD C/ ACAD C5/21553/2024 dtd: 27.08.2026
4. E-mail dtd: 03/09/2026, from the Chairperson, BoS in Economics (UG)
5. Orders of the Vice Chancellor in the file of even number dtd: 17.09.2026

ORDER

1. The Scheme and Syllabus of the FYUG B.A. Economics Programme, up to the Fourth Semester, were approved and implemented under the Private Registration Scheme of the School of Lifelong Learning (SLL), with effect from the 2024 admission, vide papers read as (1) and (2) above.
2. The list of courses to be offered in the Fifth and Sixth Semesters of FYUG Programmes under the Private Registration Scheme of SLL, with effect from the 2024 admission, was approved and implemented vide paper read as (3) above.
3. Subsequently, vide paper read as (4) above, the Chairperson, Board of Studies in Economics (UG), submitted the Scheme and Syllabus of the Fifth and Sixth Semester Courses of the FYUG B.A. Economics Programme for approval and implementation under the Private Registration Scheme of the School of Lifelong Learning of the University, with effect from the 2024 admission.
4. The Hon'ble Vice Chancellor, after considering the matter in detail, and in exercise of the powers of the Academic Council conferred under Section 11(1), Chapter III of the Kannur University Act, 1996, and all other enabling provisions read together, approved the Scheme and Syllabus of the Fifth and Sixth Semester Courses of the B.A. Economics Programme, prepared in accordance with the KU-SLL-FYUGP Regulations, 2024, and accorded sanction to implement the same under the Private Registration Scheme of the School of Lifelong Learning of the University, with effect from the 2024 admission, subject to reporting to the Academic Council.
5. The Scheme and Syllabus of the Fifth and Sixth Semesters of the FYUG B.A. Economics Programme under the Private Registration Scheme of the School of Lifelong Learning of Kannur University, implemented with effect from the 2024 admission, are appended to this U.O. and uploaded on the University website.
6. Orders are issued accordingly.

Sd/-

Bindu K P G

Joint Registrar (Acad)

For REGISTRAR

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

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

Forwarded / By Order

SECTION OFFICER

KV

KANNUR UNIVERSITY CIVIL STATION P.O. KANNUR Pin-670 002 THAVAKKARA

B.A. Economics – V Semester

Sl No.	Name of the Course	Number of course	Credit	Marks			Duration of the ESE
				ESE	CCA	Total	
1	Skill Enhancement Course – SEC – 2 **KU5SECECO301 Experiencing Indian Stock Market**	1	3	50	25	75	1½ Hours
2	DSC - Major 8 **KU5DSCECO301 International Economics**	1	4	70	30	100	2 Hours
3	DSC - Major 9 **KU5DSCECO302 Heterodox Economics**	1	4	70	30	100	2 Hours
4	DSC - Major 10 **KU5DSCECO303 Statistical Tools for Economics**	1	4	70	30	100	2 Hours
	Discipline Specific Elective (DSE) – Choose any two from below	2	8				

5	DSE - Major **KU5DSEECO301 Contours of Economic Ideas**			70	30	100	2 Hours
6	DSE – Major **KU5DSEECO303 Agricultural Economics**			70	30	100	2 Hours
7	DSE - Major **KU5DSEECO304 Economics of Growth and Development**			70	30	100	2 Hours
	TOTAL	**6**	**23**				

B.A. Economics – VI Semester

Sl No.	Name of the Course	Number of course	C	Marks			Duration of the ESE
				ESE	CCA	Total	
1	Skill Enhancement Course – SEC – 3 **KU6SECECO304 Goods and Services Tax**	1	3	50	25	75	1½ Hours
2	DSC - Major 13 **KU6DSCECO304 Development Issues of Indian Economy I**	1	4	70	30	100	2 Hours
3	DSC - Major 14 **KU6DSCECO305 Mathematical Tools for Economics**	1	4	70	30	100	2 Hours

4	DSC - Major 15 **KU6DSCECO306 Introductory Econometrics**	1	4	70	30	100	2 Hours
	Discipline Specific Elective (DSE) – Choose any two from below	2	8				
5	DSE - Major **KU6DSEECO305 Gender Economics**			70	30	100	2 Hours
6	DSE - Major **KU6DSEECO306 Managerial Economics**			70	30	100	2 Hours
7	DSE – Major **KU6DSEECO307 Advanced Mathematical Economics**			70	30	100	2 Hours
	TOTAL	**6**	**23**				

KU5DSCECO301: INTERNATIONAL ECONOMICS

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
V	DSC-Major	300-399	KU5DSCECO301	4	
Learning Approach (Hours/ Week)			Marks Distribution		Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	-	-	30	70	100	2

Course Description:

This course provides a comprehensive understanding of the principles and complexities of international economics. It covers the nature, scope, and significance of international trade and the key theories that explain trade patterns and policies. Moreover, the syllabus introduces various analytical tools and models to understand the dynamics of international trade, foreign exchange markets, and balance of payments.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Students will recall key concepts and theories related to international economics including traditional and modern trade theories	***R***
2	Students will explain the differences between internal and international trade and interpret various analytical tools used in international economics	***U,An***
3	Students will apply international trade theories and policies to analyse real-world trade patterns and issues.	**A**
4	Students will examine the factors contributing to balance of payments equilibrium and disequilibrium and analyse the effects of different trade policies.	**Analyse (An)**
5	Students will critically evaluate the implications of trade theories and policies on economic growth and development	**E ,C**

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

Mapping of Course Outcomes to PSOs

CO	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

MODULE	UNIT	DESCRIPTION
1	**INTRODUCTION TO INTERNATIONAL ECONOMICS**	
	1	International economics-Nature, scope, subject matter and importance.
	2	Differences between internal and international trade.
	3	Various tools in international theory
		a) linear and non-linear Production Possibility curve,
		b) Community indifference Curve
		c) Offer curve
2	**THEORIES OF INTERNATIONAL TRADE**	
	1	Traditional theories-.
		a) Adam smith's absolute advantage theory,
		b) Ricardos comparative advantage,
		c) Gottfried Haberle's opportunity cost theory
	2	Modern theories-.
		a) Theory of Reciprocal Demand
		b) Heckscher-Ohlin Theory and Leontief Paradox.
3	**TRADE RELATED POLICIES**	

	1	Terms of Trade – Terms of trade and its importance, classification of TOT
	2	Commercial policy – Free trade vs protection
	3	Methods of trade restrictions
		a) Tariff barriers and non-tariff barriers
		b) Types of tariffs, effect of tariff
		c) Methods of non-tariff barriers – Quotas, Export subsidies, Voluntary Exchange restraints, international cartels, Dumping, technical, administrative and other measures.
4	**FOREIGN EXCHANGE AND BALANCE OF PAYMENT**	
	1	Foreign Exchange – Foreign exchange market and its structures.
	2	The foreign exchange rate: fixed and flexible
	3	Theories of exchange rate determination
		a) The Mint Parity theory
		b) The Purchasing Power Parity theory
		c)Demand and supply analysis
	4	Balance of Trade and Balance of Payments
		a) Meaning and definition
		b) Structure of BOP- Current account and Capital account
		c) **B**alance of payment equilibrium and disequilibrium
		d) Causes of disequilibrium – corrective measures- automatic and deliberate measures

Essential Readings:

1. Rana and Verma: (2009) International Economics (Fifth edition) Vishal Publishing Co- New Delhi
2. Cherunilam Francis: 2006) International Economics (5th Edition) Tata McGraw-Hill Companies.

Reference Distribution:

Module	**Unit**	**Reference No.**	**Remarks**
1	1	Essential Readings: 1	
	2	Essential Readings: 1	
	3	Essential Readings: 1	
2	1	Essential Readings: 1/2	
	2	Essential Readings: 1/2	

3	1	Essential Readings: 1/2	
	2	Essential Readings: 1/2	
	3	Essential Readings: 1/2	
4	1	Essential Readings: 1/2	
	2	Essential Readings: 1/2	
	3	Essential Readings: 1/2	
	4	Essential Readings: 1/2	

Suggested Readings:

1. Sodersten, Bo and Reed. G. (2005), International Economics, 3rd edition, McMillian Press Ltd.– International Economics.
2. Dominic Salvatore (Recent Edition), International Economics: Trade and Finance, John Wiley and Sons, Limited.

Assessment Rubrics:

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

KU5DSCECO302: HETERODOX ECONOMICS

<table>
<tr><td>Semester</td><td>Course Type</td><td>Course Level</td><td colspan="2">Course Code</td><td>Credits</td><td>Total Hours</td></tr>
<tr><td>V</td><td>DSC</td><td>300-399</td><td colspan="2">KU5DSCECO302</td><td>4</td><td></td></tr>
<tr><td colspan="3">Learning Approach (Hours/ Week)</td><td colspan="3">Marks Distribution</td><td rowspan="2">Duration of ESE (Hours)</td></tr>
<tr><td>Lecture</td><td>Practical/ Internship</td><td>Tutorial</td><td>CE</td><td>ESE</td><td>Total</td></tr>
<tr><td></td><td>0</td><td>0</td><td>30</td><td>70</td><td>100</td><td>2</td></tr>
</table>

Course Description:

This course aims at providing a variety of perspectives outside the established orthodoxy and neo-classical economics. Students may get an opportunity to familiarise different perspectives in terms of economic theory, method and policy against the backdrop of pluralism. The course shall also enhance and diversify knowledge profile of students and provide a sound base to pursue higher education and research in heterodox economics. Further, the study of heterodox economics provides space for critical thinking, epistemological relativity and ontology which, *inter alia*, are the important pillars of heterodox knowledge production.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	This course shall provide an alternative to mainstream economics and thereby students may get an opportunity to familiarise different perspectives of and approaches to economic analysis based on pluralism in economic theory.	U,A, An
2	The course content shall strengthen the knowledge profile of students by familiarising different perspectives of economic theory and policy.	U,A, An
3	Such an exposure shall enhance and diversify the knowledge profile of students and may get opportunities to pursue higher education and research by employing theory and method of heterodox economics.	A, An,E
4	This course seeks to cultivate analytical and critical skills relevant to development policy and other methods relevant to address	A, E

	development challenges such as inequality, discrimination, and corruption.	
5	The course shall also provide an opportunity for students to apply heterodox economic policies for stabilisation and development	U,A, An and E

****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

MODULE	UNIT	DESCRIPTION
1	**FROM ORTHODOXY TO HETERODOXY**	
	1	Orthodox, Mainstream and Neo-classical economics: A brief overview.
	2	Equilibrium-Paradigm Blindness-Market and Market Failure-Information Asymmetry-Role of Institutions.
	3	Heterodox Economics: History, Concept, Nature, Scope and Principles.
2	**THEORY AND METHOD**	
	1	Central Theoretical Cores in Heterodox Economics: Social Provisioning-Social Surplus Approach-Accumulation-Effective Demand-Theory of Monetary Production.
	2	A brief outline of Heterodox Micro, Macro, Development and International Economics.
	3	Methodology of Heterodox Economics: Philosophical foundation- Pluralism-Evolutionary Perspective-Institutional base-Critical Realism-Epistemological Relativism-Ontology.
	4	Teaching (heterodox) Economics.

	5	Challenges to Heterodox Economics.
	6	Future of Heterodox Economics
3	**HETERODOX ECONOMICS: EARLY AND NEW PERSPECTIVES (BRIEF OVERVIEW)**	
	1	Early perspectives- Marxian Economics-Institutional Economics.
	2	Keynesian Economics- Post-Keynesian economics.
	3	Basic Contributions of Piero Sraffa- Michael Kalecki- Joan Robinson- Hyman Minsky-and Frederic Steve Lee to economic theory.
	4	New Heterodox Economic Perspectives: Evolutionary Economics-Social Economics-Complexity Economics -Experimental Economics-Behavioural Economics- Feminist Economics– Ecological Economics- Radical Political Economics- Humanistic Economics- Green Economics.
4	**INDIAN HETERODOX ECONOMICS**	
	1	Indian Heterodox Economics: History and Growth-
	2	Some Leading Indian heterodox Economists and their contributions:
		a)Amartya Sen-Sukhamoy Chakravarthy-Krishna Bharadwaj-Amiya Kumar Bagchi-
		b)Meghanad Desai-Amit Bhaduri-Ajit Singh-Prabhat Patnaik.

Essential Readings:

1. Dequech, David (2008) Neo-classical, Mainstream, Orthodox and Heterodox Economics, ***Journal of Post-Keynesian Economics*,** Vol.30, No.2 (Winter 2007-2008) pp.279-302.
2. Dequech, David (2012) Post-Keynesianism, Heterodoxy and Mainstream Economics, ***Review of Political Economy***, April, 2012, Vol.24, No.2, pp. 353-368
3. Lawson, Tony (2006) The Nature of Heterodox Economics, in ***Cambridge Journal of Economics***, Vol30. No.2, pp.483-507.
4. Lawson, Tony (2004) A Conception of ontology, Mimeo. University of Cambridge. Availableat http://www.csog.group.cam.ac.uk/A Conception of Ontology.pdf
5. Estey, James Arthur (1936) Orthodox Economic Theory: A Defence, ***The Journal of Political Economy***, XLIV (6)pp. 791-802, Diciembre de
6. Lee, F. (2009). A History of Heterodox Economics: Challenging the Mainstream in the Twentieth Century. Routledge.
7. Jo, T. H., Chester, L., & D'Ippoliti, C. (Eds.). (2017). The Routledge Handbook of Heterodox Economics. London. Part I and II pp 3-145 and part IV pp. 513-533
8. Albelda, R (2016). Alternatives to Economic Orthodoxy: Reader in Political Economy: Routledge.
9. Lawson, Tony (1997) Economics and Reality. London: Routledge
10. Goldstein Jonathan P and Michael G Hillard (2009) Heterodox macroeconomics: Keynes, Marx and Globalisation, Routledge. Ch 4 Methodology and Heterodox Economics, pp 54-65

11. Mearman, A., Berger, S., & Guizzo, D. (2019). What is Heterodox Economics? Conversations with Leading Economists. Routledge.
12. Fischer, L., Hasell, J., Proctor, J. C., Uwakwe, D., Perkins, Z. W., & Watson, C. (Ed.2017).Rethinking Economics: An Introduction to Pluralist Economics. Routledge.
13. Jo, T. H., Chester, L., & D'Ippoliti, C. (Eds.). (2017). The Routledge Handbook of Heterodox Economics. London.
14. Lee, Frederic Steve (2014) Microeconomic Theory: A Heterodox Approach, London: Routledge
15. Lee, F S and T.H Jo (2011) Social Surplus Approach and Heterodox Economics, **Journal of Economic Issues** 45(4) pp. 857-875
16. Jo, T. H., & Lee, F. (Eds.). (2015). Marx, Veblen, and the Foundations of Heterodox Economics: Essays in Honour of John F. Henry. Routledge.
17. Ashokan, A (2021) An Introduction to Heterodox Economics, Kairali Books, Kannur
18. . Mearman, A., Berger, S., & Guizzo, D. (2019). What is Heterodox Economics? Conversations with Leading Economists. Routledge.
19. Heilbroner, R. L. (2011). The Worldly Philosophers: The Lives, Times and Ideas of the Great Economic Thinkers. Simon and Schuster.
20. Lavoie, Mark (2014) Introduction to Heterodox and Post-Keynesian economics, University of Ottava
21. Shackleton, J A and Locksley Gareth (Ed.1981) Twelve Contemporary Economists, Palgrave, Macmillan.
22. Slaughter, Cliff (2000) Marx and Marxism, Orient Longman
23. Sen, Sunanda (2016) Evolution of Heterodox Economics Ideas in India
24. Ashokan, A (2024) Indian Heterodox Economics: History and Growth (Forthcoming).
25. Reardson, Jack (2009) The Handbook of Pluralistic Economics Education, London: Routledge (chapters: 1, 4, 5 &7)

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1.1	1,2,5	
	1.2	13, 14	
	1.3	3,6, 7, 8,18	
2	2.1	9,11,13,15	
	2.2	14,17	
	2.3	10,13,17	
	2.4	4,7,9,10,25(ch:7)	
	2.5	7,8	
	2.6	7,8	
3	3.1	16,19,21	
	3.2	20	
	3.3	17,21	
	3.4	17,19	
4	4.1	17,23,24	
	4.2	17,23,24,25	

Suggested Readings:

1. Edward Fullbrook (Ed. 2009) Ontology and Economics. London: Routledge (Chapters 3, 5, 6)

2. Hausman, Daniel(1984) The Philosophy of Economics: An Anthology, Cambridge University Press(Chapters 4,5,15,22 & 23)

Assessment Rubrics:

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

KU5DSCECO303: STATISTICAL TOOLS FOR ECONOMICS

Semester	Course Type	Course Level	Course Code	Credits		Total Hours
V	DSC	300 - 399	KU5DSCECO303	4		
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course aims to equip students with the essential statistical tools and techniques for understanding and analysing economic phenomena. The course covers a range of topics such as correlation, regression, index numbers and time series analysis with a focus on applications in economics. The course also covers topics such as probability, sampling distribution and hypothesis testing.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Understand the fundamental statistical concepts discussed in the course	R, U
2	Analyse the relationship between variables using the techniques of correlation and regression	An
3	Estimate index number using appropriate method	U, A
4	Understand the concept of probability and solve problems	U, A
5	Comprehend the basics of hypothesis testing	R, U

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

Mapping of Course Outcomes to PSOs							
CO	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

MODULE	**UNIT**	**DESCRIPTION**
1		**CORRELATION AND REGRESSION**
	1	Meaning and types of correlation - Measures of correlation (Graphical, Karl Pearson's coefficient and rank correlation coefficient)- Properties of correlation coefficient- Use examples from economics for computation.
	2	Meaning and types of regression- Methods of estimation (Scatter diagram & methods of lest square). Estimating simple regression function using examples from economics (Consumption function, saving function, production function etc.). Relationship between correlation and regression.
2		**INDEX NUMBERS AND TIME SERIES**
	1	Meaning and types of index numbers-Uses of index number- Problems in the construction of index number
	2	Laspeyre's, Paasche's, Marshall-Edgeworth, Bowley's and Fisher's indices. Tests of index numbers. Shifting the base and splicing. Consumer Price Index (CPI), Wholesale Price Index (WPI), Index of Industrial Production (IIP).
	3	Meaning and definition of time series- Components of a time series- Approaches to time series analysis
	4	Methods of estimating trend and seasonal variation
3		**THEORY OF PROBABILITY**
	1	Basic concepts of probability- Random experiment, outcome, discrete and continuous random variable, sample point, sample space, sample events and types- Permutations and combinations.
	2	Classical, relative frequency and subjective approaches to defining probability
	3	Additive, conditional probability and multiplication rules of probability and problems based on the rules. Bayes' theorem and problems.
	4	Conceptual introduction of Binomial, Poisson and Normal distribution- Standard normal curve and its properties.
4		**SAMPLING DISTRIBUTION AND BASICS OF HYPOTHESIS TESTING**
	1	Population and sample- Sampling- Need for sampling -Random and non-random sampling methods- Sampling and non-sampling errors.
	2	Parameter and statistic- Meaning and definition of sampling distribution- Sampling distribution of mean- Central limit theorem.

	3	Meaning and definition of hypothesis- Null and alternative hypothesis- Level of significance, Degrees of freedom, Type I &II error, one tailed and two tailed tests, p- value- Procedure of hypothesis testing.

Essential Readings:

1. Doane, D. P., & Seward, L. E. (2022). Applied statistics in business and economics. McGraw Hill.
2. Freedman, D., Pisani, R., & Purves, R. (2007). *Statistics*. W.W. Norton & Company.
3. Hooda, R. P. (2013). *Statistics for business and economics*. Vikas Publishing House.
4. Whitte, R. S., & Whitte, J. S. (2017). *Statistics*. Wiley.

Reference Distribution:

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

Suggested Readings:

1. Aczel, A. D., & Sounderpandian, J. (2008). *Business statistics*. McGraw Hill.
2. Anderson, D. R., Sweeney, D. J., Williams, T. A., Camm, J. D., & Cocharan, J. J. (2018). Statistics for business & economics. Cengage.
3. Gupta, S. C., & Kapoor, V. K. (2020). *Fundamentals of mathematical statistics*. Sultan Chand & Sons.
4. Spigel, M. R., & Stephens, L. J. (2008). *Schaum's outline of theory and problems of statistics*. McGraw-Hill.

Assessment Rubrics:

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

KU5DSEECO301: CONTOURS OF ECONOMIC IDEAS

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
V	DSE	300-399	KU5DSEECO301		4	
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

The course endeavours to offer students a comprehensive understanding of the progression of economic thought, aiding them in comprehending the analytical principles and ideological frameworks established by prominent economists over time. It enables learners to grasp the nuanced ebb and flow within dominant paradigms Through an exploration of these scholars' works, students can glean valuable insights into the varied perspectives that have influenced both economic theory and policy over the years.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
CO 1	Evaluate similarities and differences across the schools/paradigms and Identify the main ideas of classical political economy	R,U,E
CO 2	Develop a comprehensive understanding of alternative economic theories and their critiques of classical political economy	C, U
CO 3	Analyze ideas of Neo-Classical Economics to scrutinize current economic phenomena and policy debates ..	An, A
CO 4	Evaluate Keynesian policies in light of post-Keynesian economic theory advancements..	An, E
CO 5	Assess the merits and limitations of contemporary economics in addressing major economic and social questions	E,A

**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

MODULE	UNIT	DESCRIPTION
1	**THE PRE-HISTORY OF POLITICAL ECONOMY AND CLASSICAL ECONOMIC THOUGHT**	
	1	Significance of the study of economic Thought, Timescale of economic ideas, The pre-history of political economy.
		a) Mercantilism -Major tenets.
		b) Physiocracy- Major tenets -Quesnay's Tableau Economique.
	2	The Classical School -.
		Adam Smith -Wealth of Nations- The Economic laws of a Competitive economy-Division of labour-The harmony of interest and Limited government -Economic Development.
	3	Thomas Robert Malthus- Population Theory –Theory of profit and rent-Theory of market gluts.
	4	David Ricardo- Theory of value-Comparative advantage- Money and taxation -theory of Income Distribution and growth.
	5	John Stuart Mill-Principles of Political Economy- reciprocal demand.
	6	J B Say – Say's law of markets.
2	**CRITICS OF CLASSICISM :MARXIAN POLITICAL ECONOMY , MARGINALISM AND NEO –CLASSICISM-I**	
	1	Marxian Political Economy.
		a) Marx's Critique of Classical Economics The Marxian methodology .The critique of capitalism and exploitation- Accumulation and expanded reproduction.

		b) The laws of motion of capitalist society- The transformation of labour values into prices of production- A critical assessment.
	2	Marginalism and Neo –Classicism
		a) The 'Marginalist revolution': an overview-classicism versus neo-classicism.
	3	William Stanley Jevons- subjective theory of value- Real cost and opportunity cost- notion of capital.
	4	The Austrian school- Carl Menger- Value Theory-Economic Methodology-Friedrich Von Wieser- Exchange value and Natural value-Opportunity Cost - B¨ohm-Bawerk- Theory of Capital and Interest.
	5	Leon Walras- General equilibrium .Wilfredo Pareto-Law of Income Distribution,-Ordinal Utility,Pareto's Optimality.
3	**NEO-CLASSICISM-II, KEYNESIAN AND POST-KEYNESIAN SCHOOLS**	
	1	Alfred Marshall- Partial Equilibrium Analysis -Utility and Demand-Distribution of Income- -Internal versus External economies-Retunes to Scale.
	2	A.C Pigou-Divergence between private and social cost and benefits-Economic welfare- Irving Fisher-Theory of Interest-Quantity Theory of Money.
	3	Institutionalism – Major Tenets -Thornstein Veblen – Theory of Leisure Class-Overview of new Institutionalism.
	4	Keynesian Revolution – Keynesian theory of Employment, Effective Demand, Underemployment equilibrium, Concept of Multiplier.
	5	Post Keynesian Developments: Monetarism, New -Classical Economics, -New-Keynesian Economics.
4	**CONTRIBUTIONS OF INDIAN ECONOMISTS AND LATEST NOBEL LAUREATES**	
	1	Amartya Sen, contributions to welfare economics-social choice .inequality.
	2	Abhijit Banerjee-Experimental Approach to Alleviating Global Poverty.
	3	Jagadish Bhagavathi- International trade theory and economic development.
	4	Koushik Basu – Major economic ideas- contributions to economic development.

Essential Readings:

1. Stanley L Brue and Randy R Grant (2007) The history of economic thought, 7th edition, Thomson
2. Roncaglia A.(2006)The Wealth of Ideas. A History of Economic Thought. Cambridge University Press
3. Pressman, S. (2006) Fifty Major Economists. London ; New York: Routledge.
4. Hunt, E.K., & Lautzenheiser, M. (2011). History of Economic Thought: A Critical Perspective (3rd ed.).
5. Routledge. Olken, Benjamin A. "Banerjee, Duflo, Kremer, (July 2020)the Rise of Modern Development Economics." Scandinavian Journal of Economics 122, 3: 853-878
6. Koushik Basu(2010), Beyond the Invisible Hand: Groundwork for a New Economics, Princeton University Press, Princeton,.Penguin edition for South Asia region, 2011

7. Bhaduri, Amit. (2010). A Contribution to the Theory of Financial Fragility and Crisis. Levy Economics Institute, The, Economics Working Paper Archive. 35. 10.2139/ssrn.1605151
8. Bhagwati, Jagdish N. and Panagariya, Arvind(2013)Why Growth Matters: How Economic Growth in India Reduced Poverty and the Lessons for Other Developing Countries, Faculty Books. 279.
9. https://www.nobelprize.org/prizes/lists/all-prizes-in-economic-sciences>
10. Ernesto Screpanti and Stefano Zamagni(2005) ,An outline of history of economic thought, Oxford University Press

Reference Distribution:

Module	**Unit**	**Reference No.**	**Remarks**
1	1	Essential reading1,2	
	2	Essential reading 1,2	
	3	Essential reading 1,2	
	4	Essential reading1,3,4	
	5	Essential reading1,3,4	
	6	Essential reading 3,10	
2	1	Essential reading 1 ,2	
	2	Essential reading 2	
	3	Essential reading 2	
	4	Essential reading 3 ,1	
	5	Essential reading 1,3	
3	1	Essential reading 1,10	
	2	Essential reading 1	
	3	Essential reading 1,3	
	4	Essential reading 1,2,8	
	5	Essential reading 2,4	
4	1	Essential reading 1	
	2	Essential reading 5	
	3	Essential reading 8	
	4	Essential reading 6	
	5	Essential reading 7	
	6	Essential reading 9	

Suggested Readings:

1. Backhouse, R. (2024). The Ordinary Business of Life: A History of Economics from the Ancient World to the Twenty-First Century. (New Edition ed.) Princeton University Press.
   http://www. hetwebsite.net/het/.
2. Niall Kishtain, “A Little History of Economics” (Yale University Press, 2017)
3. Roger Backhouse and Keith Tribe(2017) , “The History of Economics” ,Agenda Publishing, USA.
4. http://www.nobel.se/economics/index.html

Assessment Rubrics:

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

KU5DSEECO303: AGRICULTURAL ECONOMICS

<table>
<tr><td>Semester</td><td>Course Type</td><td>Course Level</td><td colspan="2">Course Code</td><td>Credits</td><td>Total Hours</td></tr>
<tr><td>V</td><td>DSE</td><td>300-399</td><td colspan="2">KU5DSEECO303</td><td>4</td><td></td></tr>
<tr><td colspan="3">Learning Approach (Hours/ Week)</td><td colspan="3">Marks Distribution</td><td rowspan="2">Duration of ESE (Hours)</td></tr>
<tr><td>Lecture</td><td>Practical/ Internship</td><td>Tutorial</td><td>CE</td><td>ESE</td><td>Total</td></tr>
<tr><td></td><td>0</td><td>0</td><td>30</td><td>70</td><td>100</td><td>2</td></tr>
</table>

Course Description:

This course provides an overview of Agricultural Economics, focusing on its meaning, scope, and the role of agriculture in economic development. It delves into various models of agricultural development and production economics, examining production functions, supply and demand behaviour, decision-making under risk and uncertainty, and the technological and institutional changes in Indian agriculture. Additionally, it analyses the agricultural scenario in the specific context of Kerala, including performance, income trends, organic farming, and the impact of globalization on agrarian distress. At the end of the course the students will be equipped with analytical skills to assess and address challenges in agricultural production, management, and policy formulation.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Students will gain a deep understanding of agricultural economics, including its meaning, scope, and the pivotal role agriculture plays in economic development.	U
2	Analyse and compare various models of agricultural development proposed by prominent scholars, enabling them to understand the complexities of agricultural transformation and growth.	An
3	Develop proficiency in production economics, including the analysis of production functions, supply-demand behaviour, and decision-making under conditions of risk and uncertainty in agricultural settings.	A, An, E
4	Evaluate the impact of technological advancements and institutional changes on Indian agriculture, enabling them to assess the effectiveness of policies and interventions aimed at promoting agricultural development.	E

5	Gain insights into the specific agricultural challenges and opportunities present in Kerala, including trends in agricultural income, the impact of globalization, and the importance of organic farming.	U, An E

***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

MODULE	UNIT	DESCRIPTION
1		**INTRODUCTION TO AGRICULTURAL ECONOMICS**
	1	Themes in Agricultural Economics
		a) Meaning, Nature and Scope of Agricultural Economics
		b) Role of Agriculture in economic development
		c) Linkage between Agriculture and other sectors
	2	Models of Agricultural Development
		a) Von Thunen's theory of Agricultural Location
		b) Schultz's Thesis of transforming traditional agriculture
		c) Mellor's theory of agricultural development
		d) Boserup's theory of agricultural development
		e) Lewis model of economic development
		e) Fei-Ranis model of agricultural development
2		**AGRICULTURAL PRODUCTION ECONOMICS**
	1	Production Function in Agriculture
		a) Law of Diminishing Returns
		b) Cobb Douglas Production Function
	2	Supply and Demand Behaviour
		a) Determinants of supply and demand behaviour
		b) Cob-Web Theorem
		c) Nerlovian Model of Supply
	3	Decision making in an Environment of Risk and uncertainty in Agriculture

		a) Sources of risk and measures to manage farm risk
		a) Types of uncertainty in agriculture
		b) Strategies for Dealing with Risk and Uncertainty
3	**AGRICULTURAL DEVELOPMENT IN INDIA**	
	1	Technological changes in Indian agriculture
		a) White Revolution
		b) Green Revolution
		c) Evergreen Revolution.
		d) ICT and Agriculture
	2	Institutional Changes in Indian Agriculture
		a) Agrarian and credit institutions
		b) Contract and corporate farming
		c) Agro-Processing and Value Addition
	3	The New Economic policy and Indian Agriculture
		a) WTO agreements on Indian agriculture
		a) Trade liberalisation and Agricultural Exports
4	1	AGRIBUSINESS MANAGEMENT
		a) The Key Functions of Management in Agribusiness
		b) Marketing management
		c) Financial management
		d) Supply chain management for agribusiness-objectives, Functions, forecasting demand
		e) Managing human resources in agribusiness-Scope and Functions

Essential Readings and Reference Distribution:

Module	Unit	Reference No.
1	1	Soni, R.N. (2013). *Leading Issues in Agricultural Economics*. Vishal Publishing Co.
		Lekhi, R.K., & Singh, J. (2015). Agricultural Economics: An Indian Perspective. Kallyani Publishers
		Kapila, Uma (2018). Indian Economy Performance and Policies. Academic Foundation, New Delhi.
	2	Kapila Uma (2018). Indian Economy Performance and Policies. Academic Foundation, New Delhi.
		Soni, R.N. (2013). *Leading Issues in Agricultural Economics*. Vishal Publishing Co.
		Lekhi, R.K., & Singh, J. (2015). *Agricultural Economics: An Indian Perspective*. Kallyani Publishers
		Schultz, T. W. (1965) *Transforming Traditional Agriculture*, New Haven, Yale University Press, London.

2	1	David L. Debertin (2002). Agricultural Production Economics. Second Edition. Macmillan
	2	Subba Reddy, S., Raghu Ram, P., Neelakannta Sastry, T.V., & Bhavani Devi, I. (2004). *Agricultural Economics*. Oxford & IBH Publishing Co. Pvt. Ltd.
		Soni, R.N. (2013). *Leading Issues in Agricultural Economics*. Vishal Publishing Co.
	3	Lekhi, R.K., & Singh, J. (2015). *Agricultural Economics: An Indian Perspective*. Kallyani Publishers.
		David L. Debertin (2002). Agricultural Production Economics. Second Edition. Macmillan
3	1	Puri, V.K., & Misra, S.K. (2013). Indian Economy-Its Development Experience. Himalaya Publishing House. Latest Edition Second Green Revolution “Growth Engine for Transformation”.
	2	Suresh Pal, Mruthyunjaya, Joshi, P. K., & Saxena Raka. (Ed). Institutional Change in Indian Agriculture. National Centre for Agricultural Economics and Policy Research.
	3	Puri, V.K., & Misra, S.K. (2013). Indian Economy-Its Development Experience. Himalaya Publishing House. Latest Edition
		Soni, R.N. (2013). *Leading Issues in Agricultural Economics*.Vishal Publishing Co.
4	1	Freddie L. Barnard., John Foltz., Elizabeth A. Yeager & Brady Brewer (2021) Agribusiness Management. Sixth Edition, Routledge Taylor & Francis Group, New York.

Suggested Readings:

1. Economic Review. Kerala State Planning Board, Government of Kerala.
2. Oommen, M. A. (Ed.). (1999). *Rethinking Development, Kerala’s Development Experience*

Assessment Rubrics:

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

KU5DSEECO304: ECONOMICS OF GROWTH AND DEVELOPMENT

<table>
<tr><td>Semester</td><td>Course Type</td><td>Course Level</td><td colspan="2">Course Code</td><td>Credits</td><td>Total Hours</td></tr>
<tr><td>V</td><td>DSE</td><td>300-399</td><td colspan="2">KU5DSEECO304</td><td>4</td><td></td></tr>
<tr><td colspan="3">Learning Approach (Hours/ Week)</td><td colspan="3">Marks Distribution</td><td rowspan="2">Duration (Hours)</td></tr>
<tr><td>Lecture</td><td>Practical/ Internship</td><td>Tutorial</td><td>CE</td><td>ESE</td><td>Total</td></tr>
<tr><td></td><td>0</td><td>0</td><td>30</td><td>70</td><td>100</td><td>2</td></tr>
</table>

Course Description:

This course provides an in-depth exploration of the fundamental concepts, theories, and policies related to economic growth and development. Students will engage with the key distinctions between growth and development, examining the various determinants and measurements used to assess these phenomena. The course also delves into classical and contemporary theories of growth, offering a comprehensive understanding of both historical and modern perspectives. Additionally, it addresses the role of human resources, including the impact of education, health, and gender on economic development, and evaluates various policy approaches to promote sustainable growth.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Demonstrate familiarity with some central themes and issues of economic development	R, U
2	Demonstrate the difference between economic growth and development and the major growth theories.	R, U
3	Assess the potential effectiveness of various policies in combating economic development.	R, E
4	Explain the theories and factors in the Development process	R, U
5	Identify the role of education and health in economic development	R, U

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

Mapping of Course Outcomes to PSOs

COs-	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	✔				✔		

CO 2	✔		✔				
CO 3	✔		✔			✔	
CO 4	✔		✔		✔		
CO 5	✔						

COURSE CONTENTS

MODULE	UNIT	DESCRIPTION
1		**INTRODUCTION TO GROWTH AND DEVELOPMENT**
	1	Distinction between Growth and Development
	2	Determinants of Growth and Development
	3	Measurement of Growth and Development – PQLI; HDI; Gender Development Index; Gender Empowerment Index; Global Hunger Index
	4	Sen's Capability Approach
2		**THEORIES OF GROWTH AND DEVELOPMENT**
	1	Theories of Adam Smith, David Ricardo and Malthus
	2	Marx's stages of Growth and Marxian theory of economic development
	3	Schumpeter's theory
	4	Rostow's stages theory
	5	Big push theory
	6	Critical minimum effort theory
	7	Nelsons low level equilibrium trap theory
	8	Lewi's model of unlimited supply of labour
	9	Theories of Nurkse, Vakil and Brahmananda
	10	Balanced and Unbalanced growth theories
	11	Harrod –Domar Growth models
	12	Solow - Swan Growth models
3		**POLICIES FOR DEVELOPMENT**
	1	Role of monitory and Fiscal policies in economic development
	2	Inward and outward oriented foreign trade policies and its impact on development
	3	Role of industrial and agricultural policies on development
	4	Role of foreign aid and foreign capital on economic development
4		**HUMAN RESOURCE AND DEVELOPMENT**
	1	Man power planning
	2	Role of education and health in economic development

	3	Education and health as joint investment for development
	4	Gender and development
	5	Women in the labour force
	6	Optimum theory of population
	7	Theory of demographic transition

Essential Readings:

1. Todaro, M. P., & Smith, S. C. (2020). *Economic development* (13th ed.). Pearson Education. (Stuvia)
2. Ray, D. (2012). *Development economics*. Oxford University Press.
3. Thirlwall, A. P. (2006). *Growth and development: With special reference to developing countries* (8th ed.). Palgrave Macmillan.
4. Kapila, U. (2017). *Indian economy: Performance and policies* (17th ed.). Academic Foundation.
5. Misra, S. K., & Puri, V. K. (2023). *Economics of development and planning: Theory and practice* (19th ed.). Himalaya Publishing House. (himpub.com)

Reference Distribution:

Module	**Reference**	**Remarks**
1	Thirlwall, A. P. (2006). *Growth and development: With special reference to developing countries* (8th ed.). Palgrave Macmillan. (WorldCat.	
	Todaro, M. P., & Smith, S. C. (2020). *Economic development* (13th ed.). Pearson Education.	
	Misra, S. K., & Puri, V. K. (2023). *Economics of development and planning: Theory and practice* (19th ed.). Himalaya Publishing House.	
2	Todaro, M. P., & Smith, S. C. (2020). *Economic development* (13th ed.). Pearson Education.	
	Misra, S. K., & Puri, V. K. (2023). *Economics of development and planning: Theory and practice* (19th ed.). Himalaya Publishing House.	
	Ray, D. (2012). Development economics. Oxford University Press..	
3	Todaro, M. P., & Smith, S. C. (2020). *Economic development* (13th ed.). Pearson Education.	
	Misra, S. K., & Puri, V. K. (2023). *Economics of development and planning: Theory and practice* (19th ed.). Himalaya Publishing House.	
	Ray, D. (2012). Development economics. Oxford University Press	
4	Todaro and Smith, Economic Development, Pearson Education, New Delhi.	

	Debraj Ray, Development Economics. Oxford University Press, NewDelhi.	
	Kapila, U. (2017). Indian economy: Performance and policies (17th ed.). Academic Foundation.	

Suggested Readings:

1. Agarwal, R. C. (2018). *Economics of development and planning: Theory and practice*. Lakshmi Narain Agarwal Educational Publishers.
2. Higgins, B. H. (1968). *Economic development : Principles, problems and policies*. Universal Book Stall.
3. Meier, G. M., & Rauch, J. E. (2005). *Leading issues in economic development* (8th ed.). Oxford University Press.

Assessment Rubrics:

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

KU5SECECO301: EXPERIENCING INDIAN STOCK MARKET

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
V	**SEC**	300-399	**KU5SECECO301**		3	
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
-	0	0	25	50	75	**1.5**

Course Description:

The course aims to equip the participants with a theoretical understanding of stock market analysis. Students can apply this knowledge for wealth creation through investment in equity markets and for research purposes. The course introduces students to the capital market, equity analysis and investment. It will equip them to: understand the risk-return profiles of various asset classes, set financial goals, do asset allocation and implement the appropriate asset allocation strategies. It will equip the students with the competence to make good investment decisions. This course will give students a brief but broad introduction to the capital markets - the primary and secondary markets, investors, intermediaries, regulators, securities traded, trading mechanism, risk and return, fundamental and technical analysis etc.

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	Evaluate the structure and function of the stock market, including primary and secondary markets, and synthesize knowledge of Indian stock market exchanges (NSE, BSE, MCX) and SEBI regulations.	An, E
CO 2	Critically analyze company financial statements and valuation methods to assess company performance and investment potential	An, E
CO 3	Analyze technical indicators, including lagging (moving averages, ADX) and leading (momentum, RSI) indicators, and synthesize these interpretations to guide trading decisions.	An, E
CO 4	Assess and apply market analysis software tools, participate in simulated trading sessions, and conduct real-world analysis guided by industry and stock market experts.	An, E

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

-Mapping of Course Outcomes to PSOs

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

COURSE CONTENT

MODULE	UNIT	DESCRIPTION
1		**BASICS OF STOCK MARKET**
	1	a) What is the stock market: Primary and secondary market, Indian stock markets (NSE BSE, MCX), Regulatory framework (SEBI rules) -
		b) Financial instruments: Equity shares, bonds, mutual funds, exchange-traded funds (ETFs), derivatives
	2	STOCK MARKET TERMINOLOGIES
		Bid, Ask/Offer, Spread, Broker, Yield, Volatility, Lot size, Bull and bear market, IPO, Market capitalisation, Portfolio, Dividends, Short selling, Intraday trading, Delivery, Market order, Limit order, Stop-loss order, Demat account, Listing of securities
2		**FUNDAMENTAL ANALYSIS**
	1	Economic and Industry analysis
		Company analysis and valuation-Understanding financial statements (balance sheet, cash flow statement, etc)
	2	a) Analysis of important financial ratios with interpretation-- price-earning ratio-- price-book ratio --return on capital employed--return onequity--dividend yield (numerical problems and case analysis)
		b) Introduction to mutual funds, hedge funds and insurance
		TECHNICAL ANALYSIS
	1	a) Principles of technical analysis--Chart types (line charts, bar charts,candle stick charts) and patterns (reversal, consolidation and trend patterns) with interpretation

3		b) Technical indicators: lagging indicators such as moving averages and Average Directional Index (ADX)- leading indicators (oscillators) such as momentum, Relative Strength Index (RSI) with interpretation
	2	a) Volume analysis-- volume and trends--volume and chart pattern--volume interpretation
		b) Trading psychology including biases (anchoring bias, overconfidence bias, confirmation bias, loss aversion and herd instinct) and risk management - Numerical problems and Case analysis wherever possible
4	**TRADING MECHANISM AND ITS APPLICATION**	
	1	Depositories, NSDL, CDSL-Clearing and settlement process - Construction of Stock market indices-- SP BSE index, CNX Nifty index - Market analysis software tools such as NSE--Simulated trading-Real world analysis

Essential Readings:

1. Pilbeam, K. (2018). *Finance and financial markets* (4th ed.). Bloomsbury Academic / Red Globe Press. (for unit 1.1 and 1.2)
2. Galagedera, D. U. A. (2007). A review of capital asset pricing models. *Managerial Finance, 33*(10), 821-832. doi: 10.1108/03074350710779269 (for 1.3)
3. NSE Academy. (2024). *Study material (E-workbook & LMS) for NCFM modules*

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 1,2,3	
	2		
4	1	Essential Reading 1, 2, 3	

Suggested Readings:

1. Macedo, L. M. L. (2018). *An Inquiry into the Validity of Technical Analysis in Financial Markets with theUse of Evolutionary Techniques* (Doctoral dissertation, Universidade de Coimbra (Portugal)).
2. Lo, A. W., Mamaysky, H., & Wang, J. (2000). Foundations of technical analysis:

Computationalalgorithms, statistical inference, and empirical implementation. *The journal of finance*, *55*(4), 1705-1765.

Assessment Rubrics:

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

KU6DSCECO304: DEVELOPMENT ISSUES OF INDIAN ECONOMY I

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
VI	DSC	300-399	KU6DSCECO304		4	
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course offers a comprehensive exploration of the Indian economy, examining its dynamic sectors, critical development issues, and future prospects. It begins with an overview of the Indian economy, analyzing its historical development, current structure (including agriculture, industry, and services), and its role in the globalized world. The course investigates the intricate relationship between population dynamics and economic growth, exploring how population size, age distribution, and geographic patterns influence national economic development.

Course Prerequisite: NIL

Course Outcomes: By the end of this course, students will be able to:

CO No.	Expected Outcome	Learning Domains
CO 1	Understand the features of Indian economy and evaluate the economic policies implemented by the government since independence.	R,U
CO 2	Learn the complex relationship between population and economic development. Analyze the demographic transition and its impact on economies	U, An
CO 3	Analyze the factors influencing agricultural modernization and its impact on developing economies. Understand the challenges faced by Indian farmers, including land tenure issues, market access, and climate change.	A,An
CO 4	Evaluate the historical evolution of the industrial sector and its impact on economic development. .Analyse the rise of the service sector and its implications for industrial development.	E,An,A
CO 5	Analyze the performance of various sectors in Kerala economy	E An

**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

MODULE	UNIT	DESCRIPTION
1		ECONOMIC DEVELOPMENT SINCE INDEPENDENCE
	1	Features of Indian Economy at the time of independence-
	2	Alternative development strategies since independence- ,
		a) Import substitution,export promotion and protection, strategies of five year Plans-brief note
	3	Economic crisis of Indian economy during 1990s
	4	The post-1991 globalization strategies based on stabilization and structural adjustment packages
		a) LPG strategies
2		POPULATION AND HUMAN DEVELOPMENT
	1	Demographic features and trends- Size and growth rates of population, trends in birth and death rates,
	2	Density of population, Age and Sex Composition, Population as a factor of economic development, Demographic Dividend;
	3	National Population Policy; Human Development in India-
	4	Human Development indicators, Human Development Index, India‟s human Development record in global perspective.
3		INDIAN AGRICULTURE
	1	Nature, importance and trends in agricultural production and productivity in India

	2	Evaluation of Land reforms in India
	3	Food security and PDS in India
	4	Green revolution and its impacts on Indian agriculture
	5	Problems faced by Indian agriculture.
4	INDUSTRIAL AND SERVICE SECTOR	
	1	Industrial policies of India-1948,1956,1977,1991
		a) Industrial licensing policies - MRTP Act, FERA and FEMA
	2	Role of MSME in India, Problems faced by SSIs in India
	3	Growth and contribution of service sector to GDP of India
		a) New educational policy of India, **The Growth of Knowledge-Based Services:** The role of technology and innovation.

Essential Readings:

1. Dutt, R., & Sundharam, K. P. M. (2018). *Indian economy*. New Delhi, India: S. Chand & Company Ltd.
2. Government of India, Ministry of Finance. (2024). *Economic survey of India 2023–24*. New Delhi, India: Author.
3. Kapila, U. (Ed.). (2021). *Indian economy since independence* (Rev. ed.). New Delhi, India: Academic Foundation.
4. Dhingra, C. (2017). *Indian economic problems*. New Delhi, India: S. Chand & Company Ltd.
5. Mishra, J. K., & Puri, V. K. (2019). *Indian economy: The development experience*. Mumbai, India: Himalaya Publishing House.
6. Organisation for Economic Co-operation and Development (OECD). (2004). *Innovation in the knowledge economy: Implications for education and learning*. Paris, France: OECD Publishing.

Reference Distribution:

Module	Unit	Reference No.	Page Nos.	Remarks
1	1	Essential reading 4	32-49	
	2	Essential reading 5	303-310	
	3	Essential reading 5,1	810-813 ,780-784	
	4	Essential reading 3	457-460	
2	1	Essential reading 4	136-142	
	2	Essential reading 5	128-154	
	3	Essential reading 4,1	136-142 ,526-527	
	4	Essential reading 5	294-312	
3	1	Essential reading 5	313-320	--

	2	Essential reading 5,1	321-328 ,566-579	--
	3	Essential reading 1	534-546	--
	4	Essential reading 5	339-361	
	5	Essential reading 5	294-312	
4	1	Essential reading 5	489-502	--
	2	Essential reading 4	434-446	--
	3	Essential reading 5	793-799	--
		Essential reading , 6	176	

Suggested Readings:

1. Thirlwall, A. P. (1994). Growth and Development: With Special Reference to Developing Economies, Macmillan International Higher Education.
2. Desai. B, (2008) Industrial Economy in India, Himalaya Publishing House, Mumbai.
3. Basu, K. (Ed.). (2004). India's Emerging Economy: Performance and Prospects in the 1990s and Beyond. MIT press

Assessment Rubrics:

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

KU6DSCECO305: MATHEMATICAL TOOLS FOR ECONOMICS

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
VI	DSC	300-399	KU6DSCECO305		4	
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course aims to equip students with the essential mathematical tools and techniques for understanding and analysing economic phenomena. The course covers the topics like indices, series, matrices and differentiation. The emphasis is on developing problem-solving skills and mathematical reasoning relevant to economic modelling and analysis.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Understand and apply the concepts of indices, arithmetic and geometric progressions.	U, A
2	Solve future and present values applying appropriate formula.	U, A
3	Describe different types of matrices and the properties of matrix operations.	U, A
4	Understand and apply the concept and the rules of differentiation.	U, A
5	Understand and apply the concept of differentiation in the problems of economics	U, A

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

Mapping of Course Outcomes to PSOs

CO	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

MODULE	UNIT	DESCRIPTION
1	**SERIES, INDICES AND LOGARITHMS**	
	1	Meaning of series- Types of sequences.
	2	Arithmetic and geometric progression- nth term and the sum of n terms of an AP and GP.
	3	Meaning and concept of indices- Laws of indices- Problems based on the laws of indices.
	4	Logarithms- Common and natural logarithms - Rules of logarithms- Using logarithms to evaluate.
2	**FINANCIAL MATHEMATICS**	
	1	Basics of simple interest- Finding principal, rate and time.
	2	Compound interest- Comparison between simple interest and compound interest- Finding compound interest using formula. Shorter compounding periods.
	3	Future value of a single amount and annuity. Concept and calculation.
	4	Present value of a single amount and annuity. Equated monthly instalment (EMI).
3	**MATRICES**	
	1	Meaning and definition of matrix- Presentation of cases in matrix form- Types of matrices
	2	Addition, subtraction, scalar multiplication and multiplication of two matrices- Properties of matrix addition and multiplication. Transpose of a matrix.
	3	Meaning and definition of determinants- Finding determinant of a square matrix of order up to 3. Properties of determinants.
	4	Minors, cofactors and adjoints- Inverse of a matrix- Solving systems of linear equations using matrix inversion and Cramer’s rule.
4	**DIFFERENTIATION**	
	1	a) Limit of a function: Rules of limit- Left-hand limit and right-hand limit b) Continuous function: Properties of continuous functions- Point continuity and interval continuity.
	2	a) Meaning of differentiation and derivative-Conditions for differentiation- Rules of differentiation– Problems based on the rules of differentiation (Sum and difference rule, Product rule, quotient rule, power function rule, chain rule, implicit function rule and logarithmic differentiation rule). b) Higher order differentiation- L’Hôpital’s Rule.
	3	Partial derivatives- First and higher order partial derivatives.

	4	Application of derivatives in economics- Finding slope of economic functions, marginal functions (marginal utility, marginal product, marginal revenue, marginal expenditure, etc) elasticity of demand and supply and optimum value of economic functions.

Essential Readings:

5. Barnett, R. A., Ziegler, M. R., & Byleen, K. E. (2019). *College mathematics for business, economics, life sciences and social sciences*. Pearson.
6. Dowling, E. T. (1993). *Schaum's outline of mathematical methods for business and economics*. McGraw Hill.
7. Jacques, I. (2006). *Mathematics for economics and business*. Pearson Education Limited
8. Monga, G. S. (2019). *Mathematics and statistics for economics*. Vikas.
9. Sydsaeter, K., & Hammond, P. (2016). *Essential mathematics for economic analysis*. Pearson.

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential reading 4	
	2	Essential reading 4	
	3	Essential reading 3	
	4	Essential reading 3	
2	1	Essential reading 1	
	2	Essential reading 1, 3	
	3	Essential reading 1	
	4	Essential reading 1, 2	
3	1	Essential reading 2, 5	
	2	Essential reading 2, 5	
	3	Essential reading 2	
	4	Essential reading 2	
4	1	Essential reading 2	
	2	Essential reading 2, 5	
	3	Essential reading 2	
	4	Essential reading 2	

Suggested Readings:

1. Asano, A. (2013). *An introduction to mathematics for economics.* Cambridge University Press.
2. Baruah, S. (2011). *Basic mathematics & its application in economics*. Macmillan.
3. Bergin, J. (2015). *Mathematics for economists with applications*. Routledge.
4. Rosser, M., & Lis, P. (2016). Basic mathematics for economists. Routledge.
5. Simon, C. P., & Blume, L. (1994). *Mathematics for economists*. W.W. Norton & Company.
6. Veerachamy, R. (2008). *Quantitative methods for economists*. New Age International.

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Assessment Rubrics:

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

KU6DSCECO306: INTRODUCTORY ECONOMETRICS

Semester	Course Type	Course Level	Course Code	Credits	Total Hours	
VI	DSC	300-399	**KU6DSCECO306**	4		
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course offers a comprehensive introduction to econometrics, focusing on essential tools and techniques for empirical economic analysis. Students will explore the fundamentals of econometric model building, data types, measurement levels, and the distinction between correlation and causation. Key topics include the simple regression model, Ordinary Least Squares (OLS) estimation, hypothesis testing, and various functional forms of regression models. The course also addresses multiple linear regression models and common violations of classical linear regression assumptions, such as multicollinearity, autocorrelation, and heteroscedasticity, providing detection and remedy techniques. This course equips students with robust analytical skills for economic research and practical applications.

Course Prerequisite: Economic Theory, Statistics (basic ideas of these disciplines and some elementary mathematics)

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Define econometrics and explain its significance as a distinct discipline within economics	R,U
2	Estimate simple and multiple linear regression coefficients using the method of Ordinary Least Squares (OLS).	A,An
3	Understand and apply the assumptions of CLRM and interpret the significance of the stochastic disturbance term.	U,A
4	Compute and interpret standard errors, confidence intervals, and conduct hypothesis testing using p-values.	C,E
5	Interpret the coefficient of determination (R^2) and adjusted R^2 in the context of model fit.	A,An

6	Detect and remedy issues of multicollinearity, autocorrelation, and heteroscedasticity and identify their consequences	C,U
7	Understand the various functional form for regression models – log-linear, log-lin, lin-log, reciprocal, and polynomial models.	U A

***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	✓	✓		✓		✓	
CO 6	✓	✓		✓		✓	
CO 7	✓	✓		✓			

COURSE CONTENTS

MODULE	UNIT	DESCRIPTION
1		**INTRODUCTION TO ECONOMETRICS**
	1	Defining Econometrics
		a) Importance as a Distinct Discipline
		b) Types of Econometrics
	2	Structure of Econometric Model Building
	3	Data for Economic Analysis
		a) Nature and Sources of Data
		b) Types of Data
	4	Measurement Levels in Econometrics
	5	Correlation and Causation
	6	Limitations of Econometrics
2		**SINGLE EQUATION REGRESSION MODELS**
	1	The Simple Regression Model

		a) Population Regression Function (PRF) and Sample Regression Function (SRF)
		b) Linearity in Parameters and Variables
	2	The Role of the Stochastic Disturbance Term
	.3	Assumptions of the Classical Linear Regression Model (CLRM)
	4	Estimating via Ordinary Least Squares (OLS)
	5	Properties of OLS Estimators
		a) BLU Estimators – The Gauss–Markov Theorem
		b) Standard Errors of Estimates
	6	The Coefficient of Determination (R^2)
	7	Interval Estimation and Hypothesis Testing
		Confidence Intervals
		a) Significance Tests and p-values
		b) Concepts of the Individual and Overall significance
	8	Interpreting Regression Coefficients
3	**FUNCTIONAL FORMS OF REGRESSION MODELS**	
	1	Selecting the Appropriate Functional Form
		a) Log-Linear (Double Log) Models
		b) Log-Lin (Growth) Models
		c) Lin-Log Models
		d) Reciprocal Models
		e) Regression through Origin Models
		f) Polynomial Regression Models
	2	Interpreting Regression Coefficients in different functional forms.
	3	Basics of regression diagnostics
		a) Error Normality test
		b) Tests for Linearity
		c) Model Adequacy tests
4	**MULTIPLE LINEAR REGRESSION MODELS AND VIOLATIONS OF CLRM**	
	1	Multiple Linear Regression Analysis
		a) Basic Form, Assumptions, and Estimation
		b) OLS Estimation and interpretation of co-efficients
		c) R^2 and Adjusted R^2
	2	Testing of individual and overall significance
	.3	Multicollinearity
		a) Perfect vs. Imperfect Multicollinearity
		b) Consequences, Detection, and Remedies
	.4	Autocorrelation
		a) Pure vs. Impure Autocorrelation
		b) Consequences, Detection, and Remedies
	5	Heteroscedasticity

		a) Pure vs. Impure Heteroscedasticity
		b) Consequences, Detection, and Remedies

Essential Readings:

1. Gujarati, D. N., & Sangeetha, N. (2007). Basic econometrics (4th ed.). New Delhi, India: Tata McGraw-Hill Education.
2. Wooldridge, J. M. (2016). Introductory econometrics: A modern approach (6th ed.). Boston, MA: Cengage Learning.
3. Maddala, G. S., & Lahiri, K. (1992). *Introduction to econometrics*, New York: Macmillan.

Reference Distribution:

Module	Reference	Chapters
1	Gujarati, D. N., & Sangeetha. (2007). *Basic econometrics* (4th ed.). New Delhi, India: Tata McGraw-Hill Education.	Introduction & chapter 1
	Wooldridge, J. M. (2006). *Introductory econometrics: A modern approach* (3rd ed.). Mason, OH: Thomson South-Western.	1
	Maddala, G. S., & Lahiri, K. (1992). *Introduction to econometrics* (2nd ed.). New York, NY: Macmillan Publishing Company.	1 &3
2	Gujarati, D. N., & Sangeetha. (2007). *Basic econometrics* (4th ed.). New Delhi, India: Tata McGraw-Hill Education.	2,3,4 & 5
	Wooldridge, J. M. (2006). *Introductory econometrics: A modern approach* (3rd ed.). Mason, OH: Thomson South-Western.	2
	Maddala, G. S., & Lahiri, K. (1992). *Introduction to econometrics* (2nd ed.). New York, NY: Macmillan Publishing Company.	3
3	Gujarati, D. N., & Sangeetha. (2007). *Basic econometrics* (4th ed.). New Delhi, India: Tata McGraw-Hill Education.	6
4	Gujarati, D. N., & Sangeetha. (2007). *Basic econometrics* (4th ed.). New Delhi, India: Tata McGraw-Hill Education.	8,10,11 &12
	Wooldridge, J. M. (2006). *Introductory econometrics: A modern approach* (3rd ed.). Mason, OH: Thomson South-Western.	3, 4, 5 & 6
	Maddala, G. S., & Lahiri, K. (1992). *Introduction to econometrics* (2nd ed.). New York, NY: Macmillan Publishing Company.	4,5,6 & 7

Assessment Rubrics:

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

d)	Seminar	
e)	Book/ Article Review	
f)	Viva-Voce	
Total		**100**

Employability for the Course: On completion of this course, students will attain strong quantitative and analytical abilities which prepares students for roles such as data analysts, economic analysts, and financial analysts. Students also gain expertise in regression analysis, hypothesis testing, and diagnostics, making them valuable for evaluating public policies and market interventions. This course opens up diverse career opportunities across industries like finance, consulting, government, and technology, as well as advanced research positions in academia and research institutions.

KU6DSEECO305: GENDER ECONOMICS

Semester	Course Type	Course Level	Course Code	Credits		Total Hours
VI	DSE	300-399	KU6DSEECO305	4		
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course critically examines how gender impacts economic structures and outcomes, offering students a deep understanding of gender-specific economic roles and contributions. In a world where gender disparities significantly influence economic opportunities and policy decisions, this course provides the analytical tools to assess and address these issues. Students will explore how economic theories and practices can perpetuate gender biases and learn to advocate for inclusive policies that promote gender equality. Through contemporary case studies and real-world applications, the course emphasises the importance of integrating gender perspectives into economic analysis and policy-making. By the end of the course, students will be well-prepared to contribute to discussions and initiatives aimed at achieving gender equity in economic systems, making the course highly relevant to current global economic challenges and societal shifts.

Course Prerequisite:

1. ***Introductory Microeconomics****: Understanding of consumer behaviour, market structures, and the role of government in the economy.*

2. ***Introductory Macroeconomics****: Knowledge of economic indicators and economic growth models.*

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Gain a thorough understanding of how gender dynamics shape economic behaviours, structures, and outcomes at the micro and macro levels.	R, U
2	Develop the ability to critically analyse economic policies and frameworks from a gender perspective, identifying biases and proposing inclusive solutions.	R, U, An
3	Equip the students to advocate for gender-responsive economic policies, utilising evidence-based arguments and contemporary case studies.	R, U

4	Learn the interdisciplinary nature of gender economics, integrating insights from sociology, politics, and economics to address complex gender issues.	R, U, A
5	Analyse the economic value of unpaid work and its impact on household decision-making	An, A

****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:

MODULE	**UNIT**	**DESCRIPTION**
1	**INTRODUCTION TO GENDER ECONOMICS**	
	1	Basics of Gender Economics
		a) Definitions of gender economics
		b) Interdisciplinary nature of gender economics
		c) Importance of gender economics
	2	Basic Concepts
		a) Gender, Sex – LGBTQ+ and their problems
		b) Gender Equality and Equity
		c) Gender Mainstreaming
		d) Productive & Reproductive Work
		e) Gender Discrimination
		f) Gender stereotyping
		g) Patriarchal and Matriarchal families
		h) Gender effect
		i) Gender roles
	3	Approaches of Gender Development
		a) WID
		b) WAD
		c) GAD
2	**HOUSEHOLD ECONOMICS AND GENDER STATUS**	
	1	Introduction to Household Economics

		a) Definition of household economics
		b) Household production possibility frontier
		c) Household as an economic unit
	2	Division of Labour in the Household
		a) Gendered division of labour: paid vs. unpaid work
		b) The economic value of unpaid work: estimation
		c) Time poverty: definition and measurement
		d) Work-life balance and care insurance
	3	Gender status in India
		a) Demography of female population in India: Sex ratio, Mortality, Morbidity and life expectancy. b) Gender inequalities in education Health and nutrition
3	**GENDER IN THE LABOUR MARKET**	
	1	Discrimination in the Labour Market
		a) Overview of gender disparities in labour markets
		b) Labour force (employed + unemployed)
		c) Decent work: definition & measurement
		d) Missing women mystery - Amartya Sen's view
	2	Women and Labour market
		a) Female work participation rate
		b) Paid and unpaid work
		c) Visible and invisible work
		d) Triple role of women
		e) Occupational segregation
		f) Feminization of poverty
	3	Causes & Policy Solutions for Inequalities in the Labour Market
		a) Causes of gender inequalities in the labour market
		b) Labour market policies for gender equality
4	**GENDER AND ECONOMICS**	
	1	Feminist Economics
		a) Historical evolution & definition
	2	Gendered Measures of Well-Being
		a) Gender Development Index (GDI)
		b) Gender Inequality Index (GII)
		c) Gender Volnurability Index (GVI)
		d) Gender Empowerment Measures (GEM)
	3	Gender Responsive Budgeting (GRB)
		a) Gender budget statement
		b) Importance of Gender Responsive Budgeting (GRB)
		c) Gender Planning
	4	Women Empowerment
		a) Women empowerment programmes in India with special reference to *Kudumbasree* in Kerala.

		b) NGOs and Self Help Groups in Women Empowerment

Essential Readings:

1. Eswaran, M. (2014). *Why gender matters in economics*. Princeton University Press.
2. Jacobsen, J. (2007). *The economics of gender*. Nineteenth Edition. McGraw Hills Irwin.
3. Benería, L., Berik, G., & Floro, M. (2003). The study of Women and Gender in Economics. *L. Bene-ria, Gender, Development and Globalization, Routledge*, 31-6.
4. İzdeş Terkoğlu, Ö., İlkkaracan, İ., Memiş, E., & Yücel, Y. (2017). *The UN Women gender and economics training manual*.
5. Becchio, G. (2019). *A history of feminist and gender economics*. Routledge.

Reference Distribution:

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

Suggested Readings:

1. Agarwal, B. (1988). Who sows? Who reaps? Women and land rights in India. *The Journal of Peasant Studies*, *15*(4), 531-581.
2. Agarwal, B. (2003). Gender and land rights revisited: Exploring new prospects via the state, family and market. *Journal of agrarian change*, *3*(1-2), 184-224.
3. Antonopoulos, R., & Hirway, I. (Ed.) (2010). *Unpaid work and the economy* (Chapters 1, 2, 7 & 11). New York: Palgrave MacMillan.

4. Balakrishnan, R., McGowan, L., & Waters, C. (2016). *Transforming women's work: Policies for an inclusive economic agenda*. New York: Solidarity Centre, AFL-CIO and Center for Women's Global Leadership.
5. Becker, G. S. (2010). *The economics of discrimination*. University of Chicago press.
6. Benería, L., Berik G., & Floro, M.S. (2016). Paid and Unpaid Work: Meanings and Debates. In *Gender, development and globalisation: Economics as if all people mattered*. New York: Routledge.
7. Bulow, J. I., & Summers, L. H. (1986). A theory of dual labor markets with application to industrial policy, discrimination, and Keynesian unemployment. *Journal of labor Economics*, *4*(3, Part 1), 376-414.
8. Campbell, J., & Gillespie, M. (2016). *Feminist economics and public policy*. Taylor & Francis.
9. Elson, D. (1994). Micro, meso, macro: Gender and economic analysis in the context of policy reform. In Bakker, I. (Ed.), *The strategic silence: Gender and economic policy*. London: ZED Books and the North-South Institute.
10. Folbre, N. (1982). Exploitation comes home: a critique of the Marxian theory of family labour. *Cambridge Journal of Economics*, *6*(4), 317-329.
11. Folbre, N. (2006). *Measuring care: Gender, empowerment and the care economy*. Journal of Human Development, 14(2), 183-200.
12. Mincer, J. (1962). Labour force participation of married women: A study of labour supply. In *Aspects of labour economics* (pp. 63-105). Princeton University Press.
13. Nussbaum, M. C. (2000). *Women and human development: The capabilities approach* (Vol. 3). Cambridge university press.
14. Robeyns, I. (2003). Sen's capability approach and gender inequality: selecting relevant capabilities. *Feminist economics*, *9*(2-3), 61-92.
15. Sen, A. (1987). Gender and cooperative conflicts. In *Persistent Inequalities: Women and World Development.* In I. Tinker (Ed.), Oxford University Press, New York, pp. 123–149.
16. Sen, A. (2017). More than 100 million women are missing. In *Gender and Justice* (pp. 219-222). Routledge.

Assessment Rubrics:

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

KU6DSEECO306: MANAGERIAL ECONOMICS

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
VI	DSE	300-399	KU6DSEECO306		4	
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	30	70	100	2

Course Description:

This course is essential for understanding how economic principles guide managerial decision-making. This course aims to make students understand how managers make decisions, explore how firms are organized, and grasp the dynamics of industries. It enables students to earn advanced pricing strategies and techniques for firms with market power. From setting goals to navigating real-world scenarios, this course offers a comprehensive view of applying economic principles in managerial roles.

Course Prerequisite: Introductory microeconomics and intermediate microeconomics

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Develop a foundational grasp of managerial economics principles to tackle real-world business challenges effectively.	R,U
2	Acquire insight into organizational dynamics to navigate managerial roles with proficiency.	R,U
3	Gain understanding of industry dynamics to inform strategic decision-making in business environments.	U,E
4	Master advanced pricing strategies to optimize profitability and competitiveness in market-driven economies.	U,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	✓		✓				

COURSE CONTENTS

MODULE	UNIT	DESCRIPTION
1		**THE FUNDAMENTALS OF MANAGERIAL ECONOMICS**
	1	The manager and managerial economics.
	2	Goals and constraints of managers.
	3	Nature and importance of profits
		a) Economic versus accounting profits
		b) The role of profits
		c) Profit measurement and opportunity cost
	4	Incentives
	5	Sources of market rivalry
		a) Consumer–Producer rivalry
		b) Consumer–Consumer rivalry
		c) Producer–Producer rivalry
	6	Managerial decisions
		a) Discrete decisions
		b) Continuous decisions
		c) Incremental decisions
2		**THE ORGANIZATION OF THE FIRM**
	1	Methods of procuring inputs: spot exchange, contracts, vertical integration
	2	Transaction costs
	3	Specialized investments
		a) Site specificity
		b) Physical-asset specificity
		c) Dedicated assets
		d) Human capital
	4	Implications of specialized investments in transaction cost

		a) Costly bargaining
		b) Underinvestment
		c) Opportunism
		d) "Hold-up problem"
	5	Optimal input procurement
		a) Spot exchange
		b) Contracts
		c) Vertical integration
		d) The economic trade-off
	6	Forces that discipline managers
		a) Incentive contracts
		b) External incentives
		c) Reputation
		d) Takeovers
	7	The manager–worker principal–agent problem
		a) Solutions to the manager–worker principal–agent problem
		b) Profit sharing
		c) Revenue sharing
		d) Piece rates, time clocks and spot checks
3	**THE NATURE OF INDUSTRY**	
	1	Market structure
		a) Firm size
		b) Industry concentration
	2	Measures of industry concentration
		a) Four-firm concentration ratio
		b) Herfindahl-Hirschman index (HHI)
	3	Limitations of concentration measures
	4	Industry demand and market conditions
		a) Rothschild index, potential for entry
	5	Differences in conduct of firms
		a) Pricing behaviour and Lerner index
	6	Integration and merger activity
		a) Vertical integration
		b) Horizontal integration
		c) Conglomerate mergers
4	**PRICING STRATEGIES OF FIRMS WITH MARKET POWER**	
	1	Basic pricing strategies
		a) Basic rule of profit maximization
		b) Pricing rule for monopoly and monopolistic competition
		c) Pricing rule for Cournot oligopoly
	2	Methods of extracting surplus from consumers

		a) Price discrimination
		b) Two-part pricing
		c) Block pricing
		d) Commodity bundling
	3	Pricing strategies for special cost and demand structures
		a) Peak-load pricing
		b) Cross-subsidies
		c) Transfer pricing
	4	Pricing strategies in markets with intense price competition
		a) Price matching
		b) Inducing brand loyalty
		c) Randomized pricing

Essential Readings:

1. Baye, Michael R., Prince, Jeffrey T. (2022). Managerial Economics and Business Strategy (Tenth Edition). McGraw Hill Education.

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1-6	Essential Readings:	-
2	1-7	Essential Readings: 1	-
3	1-6	Essential Readings: 1	-
4	1-4	Essential Readings: 1	-

Suggested Readings:

1. Keat, P. G., & Young, P. K. (2017). Managerial Economics: Economic Tools for Today's Decision Makers (Fifth edition). Pearson.
2. Maurice, S. C., & Thomas, C. (2018). Managerial Economics: Foundations of Business Analysis and Strategy (Twelfth edition). Pearson.
3. Salvatore, D. (2018). Managerial Economics in a Global Economy (Eighth edition). Oxford University Press.
4. Froeb, L. M., McCann, B. T., & Shor, M. (2017). Managerial Economics: A Problem-Solving Approach (Fifth edition). Cengage Learning.
5. Samuelson, W. F., & Marks, S. G. (2017). Managerial Economics (Nineth edition). Wiley.
6. Hirschey, M. (2016). Fundamentals of Managerial Economics (Seventh edition). Cengage Learning.

Assessment Rubrics:

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

e)	Book/ Article Review	
f)	Viva-Voce	
g)	Field Report	
Total		**100**

KU6DSEECO307: ADVANCED MATHEMATICAL ECONOMICS

<table>
<tr><td>Semester</td><td>Course Type</td><td>Course Level</td><td colspan="2">Course Code</td><td>Credits</td><td>Total Hours</td></tr>
<tr><td>VI</td><td>DSE</td><td>300-399</td><td colspan="2">KU6DSEECO307</td><td>4</td><td></td></tr>
<tr><td colspan="3">Learning Approach (Hours/ Week)</td><td colspan="3">Marks Distribution</td><td rowspan="2">Duration of ESE (Hours)</td></tr>
<tr><td>Lecture</td><td>Practical/ Internship</td><td>Tutorial</td><td>CE</td><td>ESE</td><td>Total</td></tr>
<tr><td></td><td>0</td><td>0</td><td>30</td><td>70</td><td>100</td><td>2</td></tr>
</table>

Course Description:

This course aims to equip students with essential mathematical tools and techniques necessary for economic analysis. It begins with a thorough exploration of multivariate differentiation, followed by the study of integration techniques. Linear equation analysis is then introduced to provide foundational skills in modelling economic relationships. The course also delves into applications of matrix algebra and linear programming techniques, emphasizing their relevance in optimizing economic decisions and analyzing complex economic systems.

Course Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Apply multivariable differentiation for analysing economic phenomenon	A, An
2	Explain the concept of integration and apply them for understanding economic phenomenon	A, An
3	Solve systems of linear equations using various methods	A, An
4	Evaluate optimum conditions using matrix concepts.	E
5	Apply linear programming technique for optimum solution.	A

****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

MODULE	UNIT	DESCRIPTION
1	**MULTI-VARIABLE DIFFERENTIATION**	
	1	Review of major rules of differentiation.
	2	Partial derivatives- First and higher order partial derivatives.
	3	Total differential and total derivative - Higher order derivatives and differentials. Homogeneous function and its properties. Euler's Theorem.
	4	Application of multivariable differentiation in economics: Marginal analysis, partial elasticities and optimisation of multivariable function - Constrained optimization with Lagrange multipliers.
2	**INTEGRATION**	
	1	Concept of integration –Indefinite integration- Rules of indefinite integrals.
	2	Integration by substitution, parts and partial fraction –Applications of indefinite integration in economics.
	3	Definite Integral-Properties of definite integration.
	4	Applications of definite integration in Economics: Area under curve and area between curves- consumer's surplus and producer's surplus.
3	**MATRICES**	
	1	Review of basic concepts and rules of matrix. Determinant, inverse and solving linear equation.
	2	Meaning and definition of rank of a matrix. Rank of the matrix from its echelon matrix.
	3	Characteristic equation, Eigen values and Eigen vectors. Cayley Hamilton Theorem.
	4	Discriminants and Sign definiteness of quadratic functions. Hessian and higher order Hessian matrix. Optimization conditions of quadratic forms subject to linear constraints.
4	**LINEAR PROGRAMMING**	
	1	Terminology- Basic assumptions- Formulation of LPP.
	2	Graphical solutions to maximisation and minimisation problems.
	3	Simplex method- Solutions to problems using simplex method.
	4	Duality in LPP – Formulation of dual – Characteristics – Economic interpretation of dual – Applications and limitations of linear programming.

Essential Readings:

1. Anthony, M., & Harvey, M. (2012). *Linear algebra. Concepts and methods*. Cambridge University Press.

2. Chiang, A. C., & Wainwright, K. (2013). *Fundamental methods of mathematical economics*. McGraw Hill.
3. Dowling, E. T. (2012). *Schaum's outline of introduction to mathematical economics*. McGraw Hill.
4. Jacques, I. (2006). Mathematics for economics and business. Pearson Education Limited.
5. Sydsaeter, K., & Hammond, P. (2012). *Essential mathematics for economic analysis*. Pearson.
6. Taha, H. A. (2017). *Operations research*. *An introduction*. Pearson.

Reference Distribution:

Module	Unit	Reference No.	Remarks
1	1	Essential reading 3, 4, 5	
	2	Essential reading 3, 4, 5	
	3	Essential reading 2, 3, 5	
	4	Essential reading 2, 3	
2	1	Essential reading 4, 5	
	2	Essential reading 5	
	3	Essential reading 4, 5	
	4	Essential reading 4, 5	
3	1	Essential reading 1, 3, 4, 5	
	2	Essential reading 1, 2, 3	
	3	Essential reading 1	
	4	Essential reading	
4	1	Essential reading 6	
	2	Essential reading 6	
	3	Essential reading 6	
	4	Essential reading 6	

Suggested Readings:

1. Baruah, S. (2011). *Basic mathematics & its application in economics*. Macmillan.
2. Hillier, F. S., & Lieberman, G. J. (2010). *Introduction to operations research*. McGraw Hill.
3. Monga, G. S. (2019). *Mathematics and statistics for economics*. Vikas.

Assessment Rubrics:

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

g)	Field Report	
Total		**100**

KU6SECECO304: GOODS AND SERVICES TAX (GST)

Semester	Course Type	Course Level	Course Code		Credits	Total Hours
VI	**SEC**	300-399	**KU6SECECO304**		3	
Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
	0	0	25	50	75	**1.5 hours**

Course Description:

This course helps the students to understand GST which has immense career opportunities both in the private and public sector. Students are able to find a career as GST professionals in small and medium enterprises. The course covers major aspects of GST laws, procedures and accounts.

Course Prerequisite: NIL

Course Outcomes:

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

CO No.	**Expected Outcome**	**Learnin g Domain s**
CO 1	Critically analyze the key aspects and implications of GST laws in India	An, E
CO 2	Proficiently apply the procedures for GST registration and return filing	An, E
CO 3	Integrate advanced accounting principles with GST regulations	An, E
CO 4	Independently implement GST registration and return filing provisions	An, E

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

-Mapping of Course Outcomes to PSOs

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

COURSE CONTENTS

MODULE	UNIT	DESCRIPTION
1		**INTRODUCTION TO GST**
	1	a) Constitutional Background of the introduction of GST – Characterisation of Indian GST -
		b) Central Goods and Services Tax (CGST),
		c) State Goods and Services Tax (SGST)
	2	Integrated Goods and Services Tax (IGST), Definitions - Levy and Collection of Tax, Composition Scheme - Registration. Input Tax Credit, Tax Invoice
2		**PLACE OF SUPPLY OF GOODS**
		a) Place of supply of goods, Place of supply of services - Filing of Returns & Payment of Tax, Tax Deduction at Source & Tax Collection at Source
		b) Refund Mechanism - Assessment, Audit, Advance Ruling - GST Rates and use of HSN Code/SAC
		c) Performance of GST in India
3		**ACCOUNTING FOR GST**
	1	Book-keeping & Accounting - Business Transactions- Invoice & Vouchers
	2	Double Entry Principle - Debit & Credit - Journal - Ledger - Bank Reconciliation Statement

Essential Readings:

1. Govinda Rao M (2019) Goods & Service Tax in India: Progress, Performance and Prospects, Deepak & Neera Raj Centre on Indian Economic Policies. Columbia University Working Paper No 2019-02
2. GoI. 2019. Report of the Comptroller and Auditor General of India for the year ended March 2018. Department of Revenue. Available at https://cag.gov.in/uploads/download_audit_report/2019/Report_No_11_of_2019_Compliance_Audit_of_Union_Government_Department_of_Revenue_Indirect_Taxes_Goods_and_Services_Tax.pdf
3. Nayyar, A., & Singh, I. (2018). A comprehensive analysis of Goods and Services Tax (GST) in India. Indian Journal of Finance, 12(2), 57-71. Available at https://www.indianjournaloffinance.co.in/index.php/IJF/article/view/121377
4. Gulati Institute of Finance and taxation. 2021. Report on GST Compensation in India State Level Experience and the Way Forward. September. Available at https://www.gift.res.in/ofk_im/extra/Report_on_GST_Compensation.pdf
5. Joseph, K. J., & Kumary, L. A. (2023). India’s GST Paradigm and the Trajectory of Fiscal Federalism: An Analysis with Special Reference to Kerala. The Indian Economic Journal,

71(1), 187-203. https://doi.org/10.1177/00194662221146640

6. Goods and Service Tax Counsil. (n.d). Brief History of GST in India Available at https://gstcouncil.gov.in/brief-history-gst

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		
	3	Essential Reading 1, 4, 6	

Suggested Readings:

1. **Mahlawat, S. (2018).** *Goods and Services Tax and Indian retail sector: Issues and challenges.* In *Indian Economy: Tales of Transformation* (p. 52)..
2. Mahajan, P. (2015). E-Way Bill: A Digital Approach toward GST in India.

Assessment Rubrics:

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