

Ellective	from Session: 2024-2	25		The state	<u> </u>	D. al Fra						
Course Co	ode	HE510		litle of the	e Course	Rural Ecol	nomics				P	C
Year	in Semester IV. Semester V. Semest							0	4			
Pre-Requ	isite	Graduation		Co-requisi	te	None						
Course Ol	bjectives	To provide a relevant to ru	n elaborative u ural economics.	nderstanding	g related to issues i	n rural econo	mics and al	so to familiarize	e students	with policy	issues t	hat is
					Course Outcome	s						
CO1	Critically and creat	ive thinking abo	out the rural eco	nomies.								
CO2	Understand the stru	cture of rural e	conomies intera	ctions, rural of	organizations and pr	oblems in rur	al economie	S				
CO3	Gain insight into th	e socio-econom	nic structure of 1	ural India.								
CO4	Understand the pros	spects and prob	lems of rural de	velopment in	ı India							
CO5	Evaluate the application	ation of local st	rategies for eco	nomic develo	opment.							
Unit No.				Con	itent of Unit					Contact Hrs.	Map C	ped O
1	Introduction Rural Economics Economy; Rural-1	; Concept, Sco Urban Linkages	ppe, Basic Elen , Rural Econom	nents, Object 1y of India; S	tives and Importance ize and Structure of	ce of Rural E Rural Econor	Economics, ny.	Characteristics	of Rural	12	СС)1
2	Connotations of Rural Development Approaches to Rural Development in India-Gandhian Approach, Rural development through Green Revolution, Rural prosperity 12 CO2 through direct attack on Poverty, Rural Development through Financial Inclusion, Multi-sectoral, Territorial and Local Resource 12 CO2 Use; Land Utilization and Land Reform. 12 CO2 CO2						<u>)</u> 2					
3	Rural Issues Natural Resource Problems of Rura	es and their ir l Economy; Pov	nportance in F verty, Unemploy	Rural Develo yment, Inequ	pment Diversificati ality.	on of Rural	Economy;	Rural Industria	alisation:	12	СС)3
4	Strategies of Rural Development Strategies of Rural Development; Growth oriented strategy, Welfare strategy, Responsive strategy, Holistic strategy, Right-based strategy. Rural Development Programmes; Objectives and Appraisal (SJGSY and MGNREGS) Rural Economy; Diversification as strategy of Development.)4					
5	Institutional Development for Agricultural Growth 12 Asset distribution of rural households in India over time, Indebtedness of rural households, non-institutional and institutional sources of credit, role of co-operatives, Schedule Commercial Banks, Regional Rural Banks and NABARD, Schemes of Financial Inclusion. 12					28						
Reference	e Books:								I		1	
1.	1. Bilgrami S. A.R. An Introduction to Agricultural Economics. Himalaya Publishing House											
2.	. Mumbai.											
3.	3. Dandekar V.M The Indian Economy 1947-92 Vol 1: Agriculture, Sage Publishing House											
4.	 Lekhi R.K., and Joginder Singh, Agricultural Economics, Kalyani Publishers Sabultz T.W. Economic Growth and Agricultura McGrow Hill 											
5.	 Schultz L. W. Economic Growth and Agriculture, McGraw Hill Surinder S. Jodhka. A Handbook of Rural India. Orient Blackswan 											
7.	7. Relevant Government publications											
E-Learnin	g Source:											
https://sw	ayam.gov.in/											
			Course A	Articulation	Matrix: (Mapping	of COs with	POs and PS	SOs)				
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS01	PS02	PSO3	PS	504
<u>CO1</u>	3	3	3	-	-	3	-	3	3	1	3	
C02	3	3	3	-	-	3	-	3	3	1	3	
<u>CO4</u>	3	3	3	-	1	3	-	3	3	2	2	
C04	3	3	3	-	3	3	-	3	3	2	3	
005	5	5	5		5	5	1	5	5	-	5	

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator

Sign & Seal of HoD



Effective from Session: 2024-25								
Course Code	HE509	Title of the Course	Theories of Economic Growth	L	Т	Р	C	
Year	IInd	nd Semester 4 th 4 0						
Pre-Requisite	Graduation Co-requisite None							
Course Objectives	To introduce students to the theories and empirics of economic growth. Upon completion of this course students should be							
Course Objectives	able to discuss	the important models, th	neories and implications of the alternative approaches to gro	wth.				

	Course Outcomes
CO1	Students should be able to comprehend the concept and meaning of economic growth and economic development.
CO2	Students should be able to distinguish between economic growth and economic development.
CO3	Students should be able to comprehend the issues and challenges in economic growth and development.
CO4	Students should be able to comprehend and explain the concept of poverty and human development & the related concepts.
CO5	Students should be familiar with the approaches to development.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO			
1.	Economic Growth Theories	Economic growth- Meaning, Characteristics, Measurement and Factors of Economic Growth; Balanced and Unbalanced Economic Growth; Marx's Stages of Growth; Rostow's Stages of Economic Growth; Structural Diversity and common characteristics of developing nations.	08	CO1			
2.	Modern Theories of Economic Growth	Conceptual framework and methodology of modern growth theories; Harrod-Domar Growth model; Contemporary growth theories of neo-classical, Solow, Meade, and Swan-Uzawa.	08	CO2			
3.	Cambridge theories of growth	Cambridge theories of growth; Joan Robinson, Kaldor, Pasinetti, the capital controversy, money and economic growth-Tobin and Johnson's models.	08	CO3			
4.	Technological Progress and Economic Growth	Technological Progress- embodied and disembodied; Neutral and Non-Neutral (Hicks and Harrod); Arrow's learning by doing approach to economic growth; total factor productivity and growth accounting.	08	CO4			
5.	Optimal & Endogenous Growth Theory	Optimal growth theory: Ramsay, Von Neumann, Golden Rule of Accumulation; Endogenous growth Models-AK model and Romer model; Explanations of cross country differentials in economic growth.	08	CO5			
Referen	Reference Books:						
Barro, F	Robert J and Xavier Sala-i	- Martin, Economic Growth, The MIT Press, Cambridge, Latest Edition.					
Basu, K	aushik (2010): Analytical	Development Economics: The Less Developed Economy, Oxford University Press.					
Dasgup	ta, Dipankar: Growth The	ory, Oxford University Press, 2007					
Ghatak,	S., An Introduction to De	evelopment Economics. Allen and Unwin London, latest edition.					
Hayami	, Y., Development Econo	mics, Oxford University Press, New York, 2010 (5th Impression)					
Hayami	Hayami, Yujiro & Godo, Yoshihisa (2005): Development Economics: From the Poverty to the Wealth of Nations, Oxford University Press.						
Hendrik	Hendrik Van Den Berg, Economic Growth and Development, McGraw-Hill International Edition, 2005						
Jhingan	Jhingan, M.L (2013): Economics of Development and Planning, Vrinda Publications, New Delhi.						
Mishra,	Mishra, S.K & Puri, V.K (2012): Economics of Development and Planning, Himalaya Publishers, Mumbai.						
E-Lear	ning Source:						
https://s	wayam.gov.in/						
http://w	ww.ignouhelp.in/ignou-st	udy-material/					

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)										
PO-PSO	DO1				DO5	DOG	DO7	DCO1	DSOJ	DSO2	DSO4
CO	POI	FO2	PO5	r04	FOS	POO	r07	1301	F302	F305	F304
CO1	3	1	2	3	1	1	2	1	3	2	1
CO2	2	3	2	1	1	3	1	2	2	1	1
CO3	3	1	2	1	2	1	2	3	1	3	2
CO4	1	2	1	2	3	2	3	1	3	2	1
CO5	3	3	2	3	2	3	2	3	1	1	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator

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Effective from Session: 2024-25								
Course Code	HE516	Title of the Course	Industrial Economics	L	Т	P	С	
Year	2nd	Semester	IVth	4	0	0	4	
Pre-Requisite	Graduation Co-requisite None							
Course Objectives	To familiarize structure, perfo industry practit	and acquaint the stud rmance, and developme oners, and researchers t	ent with revolve around understanding, analyzing, and event of industrial sectors. It aims to provide insights and guid o make decisions and policies in the field of industrial economic or make decisions and policies in the field of industrial economic decisions and policies in the field of a sector of the se	valuati lance f omics.	ng the for polic	behavio cymake:	or, rs,	

	Course Outcomes
001	To equip with a solid foundation in the basic concepts of industrial economics, an understanding of its evolution and importance, and an
COI	ability to analyze and evaluate Indian industries and the role of entrepreneurship in industrial development.
CO2	To understand the meaning and scope of Market Concentration.
CO3	To analyze industrial location decisions, evaluate policies, and assess industrial performance in various contexts.
004	To analyze and evaluate the financial aspects of industrial operations, identify financing solutions for small-scale enterprises, and assess the
004	implications of foreign investment on industrial growth.
005	To critically assess industrialization processes, evaluate government policies, and understand the complexities and challenges associated with
COS	industrial Development.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO			
1.	Introduction	Basic Concepts and Definitions of Industrial Economics, Evolution and Importance of Industrial Economics, Relationship with other Branches of Economics, Appraisal of Important Indian Industries PSUs, Role of Entrepreneurship in Industrial Development.	08	CO1			
2.	Market Concentration	Measurement of Concentration and Monopoly Power, Concentration and Market Performance of the Firm, Product Pricing Theory, The Indian Regulatory Framework.	08	CO2			
3.	Industrial Location Theories	Determinants of Industrial Location - Technical, Economic, Infrastructural and other factors. Theories of Industrial Location - Weber, August Losch, Sargant Florence, Measurement of Industrial Performance Indicators.	08	CO3			
4.	Source of Industrial Finance	Necessity and significance of Industrial Finance, Specialized Institution of Industrial Finance. Challenges finance before tiny and MSMEs. Role of FDI and FII to develop industry.	08	CO4			
5.	Industrialization & Industrial Policy	Industrialization: Rationale, Objectives, Strategies and Policies. Industrialization and Regional Development. Employment Implications of Industrialization. Need for Government Intervention in Industry. New Industrial Policy of India.	08	CO5			
Referen	Reference Books:						
Barthwa	Barthwal, R.R.: Industrial Economics, Wiley Eastern, New Delhi.						
Cherunilam F: Industrial Economics: Indian Perspective (3rd Edition) (Himalaya Publishing House, Mumbai, 1994)							
Hay,D.	Hay, D. and D.J.Morris: Industrial Economics: Theory and Evidence, OUP, New Delhi.						
Kuchha	l, S.C.: Industrial Econon	ny of India, Chaitanya Publishing House, Allahabad					
FLoor	ning Courses						

E-Learning Source:

https://swayam.gov.in/ http://www.ignouhelp.in/ignou-study-material/

			Course	e Articulati	ion Matrix:	(Mapping	of COs wit	h POs and	PSOs)		
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
СО	101	102	105	104	105	100	107	1501	1502	1505	1504
CO1	3	2	3	1	2	1	2	1	3	2	1
CO2	2	3	2	3	1	3	1	2	2	1	1
CO3	3	1	3	1	2	1	2	3	1	3	2
CO4	1	2	1	2	3	2	3	1	3	2	1
CO5	3	3	2	3	2	3	2	3	1	1	2

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Effective from Session: 2024-25									
Course Code	HE512	512Title of the CourseEconomics of Infrastructure.LTPC							
Year	II nd	Semester IV th 4 0 0 4							
Pre-Requisite	Graduation	Braduation Co-requisite None							
Course Objectives	In case of developing of The emphasis of this p empirical research in i strength of infrastructur	countries, lack of adequate aper is on concepts and in nfrastructural economics. re-physical and social in the	e infrastructure has been held as a maj introduction of various tools required for This paper would also help the stude he process of economic development.	or ob or pol ents to	stacle t licy and o under	o grow alysis a rstand	vth. and the		

	Course Outcomes
CO1	The course aims to acquaint and familiarize the students with the economics of infrastructure.
CO2	Students will be able to understand the problem of peak-load pricing.
CO3	The objective of the course is to expose the students to the issues and concerns of Transport and Communication sector in India.
CO4	Students will be able to understand the role of Energy sector.
CO5	Students will be able to understand the characteristics and problems of Renewable and Non-conventional Energy sources.

Unit No.	Content of Unit	Contac t Hrs.	Mappe d CO				
1	Introduction: Infrastructure and economic development; Infrastructure as a public good; Economic characteristics and types of infrastructure; Public utilities – Rationale of state provision; special characteristics of public utilities. Public-private partnership investment in infrastructure.	10	CO1				
2	The peak-load-Off-peak load Problem, Marginal Cost Pricing vs. other methods of pricing in public utilities; Social infrastructure – organization and financing of supply of social services, Private vs. Public sector financing.	8	CO2				
3 Transport and communication: the structure of Transport Costs and Location of Economic Activities. The supply of transport, Pricing policy; Cost Levels and Structure-Road Transport. Introduction to the setting of postal tariffs; Criteria for Fixation of Postal Tariffs, Cost and Pricing in the telecommunications Industry; Telecommunications in India; New Telecom Policy.							
4	Energy and Electricity Primacy of Energy in the Process of Economic Development. Factors Determining Demand for Energy; Effects of energy shortages, Energy Conservation; The Relative Economics of Thermal, Hydel and Nuclear Power Plants.	10	CO4				
5	Renewable and Non-conventional Sources of Energy, rural electrification in India- Problems & prospects. The Case for a National Power Grid. Electricity Policy- Main Features, Oil & gas- Recent Initiatives, Pricing Problem.	7	CO5				
Referen	ce Books:						
1.	Crew, M.A. and P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London.						
2.	Indian Council of Social Sciences Research (ICSSR) (1976), Economics of Infrastructure, Vol. VI, New Det	lhi.					
3.	National Council of Applied Economic Research (NCAER) (1996), India Infrastructure Report: Policy Imp and Welfare, NCAER, New Delhi.	lications fo	or Growth				
4.	Pachauri, R.K (Ed), Energy Policy for India, Macmillan Co of India, New Delhi.						
5.	Parikh, K.S. (Ed.) (1999), India Development Report-1999-2000, Oxford University Press, New Delhi.						
6.	Turvey, R. (Ed.) (1968), Public Enterprises, Penguin, Harmondsworth.						
E-Learn	ing Source:						
https://sw http://ww	ayam.gov.in/ w.ignouhelp.in/ignou-study-material/						

	Course Articulation Matrix: (Manning of COG with DOg and DSOg)													
	Course Articulation Matrix: (Mapping of COS with FOS and FSOS)													
PO-PSO	DO1	PO2	DO3	PO4	DO5	DO6	PO7	DSO1	DSOJ	DSO3	DSO4			
CO	FOI	FO2	FUS	F04	105	100	107	1501	1502	1505	r304			
CO1	3	2	3	1	2	1	3	2	1	3	1			
CO2	2	3	2	3	1	2	2	1	1	2	3			
CO3	3	1	3	1	2	3	1	3	2	1	2			
CO4	1	2	1	2	3	1	3	2	1	3	3			
CO5	3	3	2	3	2	3	1	1	2	2	3			

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Effective	Effective from Session: 2024-25												
Course (Code	HE515	Title of the Course	Financial Institution and Markets	L T	P	С						
Year		2 nd	Semester	IVth	4 0	0	4						
Pre-Req	uisite	Graduation	Co-requisite	None									
Course (Objectives	The objective of the course	is to familiarize the students wi	th Financial Institutions and Market.			-						
		•	Course Outcome	8									
CO1	Students will demo	onstrate a comprehensive und	lerstanding of key financial term	s related to financial institutions and the money	market.								
CO2	Students will be able to differentiate between various types of financial institutions.												
CO3	Students will be ab	ole to discuss the impact of te	chnology on financial institution	ns and the money market.									
CO4	Students will be a	ble to identify, describe, and	analyze different money marke	et instruments, demonstrating a nuanced unders	tanding of th	neir f	eatures,						
	risks, and benefits.	•											
CO5	CO5 Students will be able to analyze financial markets, interpret interest rates, exchange rates, and market trends.												
UnitNo.			Content of Unit		Contact	M	lapped						
	Introduction: Fir	nancial and non financial Ass	sets Financial intermediation and	l role of financial intermediaries. The structure									
1	and function of	financial system. Indicators	of financial development Finan	cial development and economic development	12		CO1						
	Globalization of	financial system.											
	Central Bank and	d Commercial Banks: Functi	ons of Central Bank Aims and e	effectiveness of monetary policy. Transmission									
2	and effectivenes	s of monetary policy. Mor	netary policy reforms. Comme	rcial Banks. Profitability Vs liquidity credit	12		CO2						
-	creation. Term st	tructure of interest rates reso	lution of NPAS : One time sett	lement policies, hiving off etc BASEL norms,	12		002						
	Banking sector re	eforms. Cooperative Banks.											
3	International Fin	ancial Institutions: Introduct	tion, International liquidity. Int	ernational Financial Flows form and volume.	12		CO3						
	IMF, IBRD and I	IDA. European investment B	ank (EIB), ADB , IFC, BIS (Bar	ak for international settlement) BRICs bank.			000						
	Money market:	Treasury Bill Market, Comm	nercial Bill market including con	nmercial Paper and certificates of deposits.									
4	Inter bank call m	12	CO4	CO4									
-	Securities Market: Capital market: primary and secondary market bonds market, Futures options and other derivatives,												
	pricing of derivat	tives, Government Securities	market Commodity market, Infi	astructure financing.									
	International Fin	nancial Markets: Foreign	exchange market: Nature or	ganization and participants, Exchange rate									
5	Electing exchange	EER and NEER, Devaluati	on and depreciation, Fixed and	in an available rate system, working of	12		CO5						
	exchange rates	ge fate system since 1975	currency convertionity the ind	ian experience. Kisk nedging and futures in									
Reference	ce Books:					<u>.</u>							
1.	Avadhani, V.A. (2	2012): Financial Services and	Markets, Himalaya Publishing	House, India									
2.	Bhole, L. M. (201	5): Indian Financial System,	Chugh Publications, Allahabad,	India									
3.	Bhole, L. M. (201	6): Financial Institutions and	Markets, Tata McGraw Hill Co	mpany Ltd., New Delhi, India									
4.	Houthakker, H. S.	. & Williamson, P. J. (1996):	Economics of Financial Markets	s, Oxford University Press.									
5.	Gupta, Shashi K.	& Agrawal, Nisha (2013): Fi	nancial services, Kalyani Publis	hers, Indi									
6.	Khan, M. Y. (2010	6): Indian Financial System,	Tata McGraw Hill, New Yor										
7.	Gordon and Natar	ajan (2012): Financial marke	ts and services, Himalaya Publis	shing House, India									
E-Learn	ing Source:												

https://swayam.gov.in/

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	
CO1	3	3	3	-	-	3	-	3	3	1	3	
CO2	3	3	3	-	-	3	-	3	3	1	3	
CO3	3	3	3	-	3	3	-	3	3	1	3	
CO4	3	3	3	-	1	3	-	3	3	2	3	
CO5	3	3	3	-	3	3	-	3	3	2	3	

Name & Sign of Program Coordinator	Sign & Seal of HoD



Effective from Session:	2024-25											
Course Code	HE597	Title of the Course	Dissertation	L	Т	Р	С					
Year	II nd	Semester	IV th	4	0	4	8					
Pre-Requisite	Graduation	Co-requisite	None									
Course Objectives	Students will learn the data collection, analysi	idents will learn the skills of formulation of research problem, objectives, hypotheses and also the skills of ta collection analysis, and interpretation and prepare them for writing the research proposal based on the										
	understanding of the su	biect.		. 1								

	Course Outcomes
CO1	To enable postgraduate students with guidance and support to conduct independent research and produce a dissertation on a chosen topic within their field of study
CO2	Students will develop their research skills, critical thinking abilities, and scholarly writing proficiency
CO3	The course will cover the various stages of the research process, from topic selection and proposal writing to data collection, analysis, and the final write-up of the dissertation.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction	Introduction of dissertation, Steps, ethics, and writing dissertation	10	1
2	Literature	Finalizing topic, literature and introduction, deciding methodology, data collection and data analysis	10	2
3	Final Writing	Final Completion of the work and submission. The Dissertation outcomes may be reported in the following form as per the norms : Chapter-1: Introduction & Review of Literature; Chapter-2: Research Methodology; Chapter-3: Conceptual & Theoretical Description; Chapter-4: Analysis and Interpretations; Chapter-5: Conclusion, Suggestions & Scope for further research; References, Annexure, etc.	20	3
Referen	ce Books:			
Based or	the topic of dissertation	n		
https://sv http://wv	vayam.gov.in/ vw.ignouhelp.in/ignou-s	study-material/		

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)												
PO-PSO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5				
СО	101	102	105	104	105	1501	1502	1505	1304	1505				
CO1	-	-	-	-	-	-	-	-	-	-				
CO2	-	-	-	-	-	-	-	-	-	-				
		1 T			4.0	1.4 2.0	1 4 4 10	1 4*						

Name & Sign of Program Coordinator	Sign & Seal of HoD



Effective from Session: 2021-21										
Course Code	MT537	Title of the Course	Quantitative Methods for Economics	L	Т	P	С			
Year	IInd	Semester	IVth	3	1	0	4			
Pre-Requisite	Graduation	Co-requisite	None							
Course Objectives	The objectiv mainly focus	e of this paper is to deserve on those mathematic	evelop a mathematical approach to the analysis of cal techniques which are directly useful in economic	econo	mic pı ysis.	oblems	s. It			

Course Outcomes						
CO1	Students will be able to understand the basic concept of Differential Equation.					
CO2	Students will be able to understand the Difference Equations.					
CO3	Students will be able to understand the Linear Programming Problems (LPP).					
CO4	Students will be able to understand the Input-Output Analysis & Decision theory.					
CO5	Students will be able to understand the Game Theory.					

Unit No.	Title of the Unit	Unit Content of Unit						
1	Differential Equations	Definitions and Concepts, First-order Linear Differential Equations, Exact Differential Equations, Integrating Factors, Separations of variables, Second-order Differential Equations, Economic Applications	08	CO1				
2	Difference Equations and Matrices	Definitions and Concepts; First-order and Second-order, Linear Difference Equations, Stability conditions, Economic Applications. Matrices: Definition, different types of matrices, elementary operations, Solution of system of linear equations by Cramer's rule.	08	CO2				
3	Linear Programming Problems (LPP)	r ming (LPP)Definition and formulations, Graphic Approach, Simplex method, Big M method, Primal - Dual formulation and its economic interpretation.						
4	Input-Output Analysis & Decision theory	Leontief's static open input-output model, Decision theory, Decision making environments: Certainty, Uncertainty & Risk, Decision tree.	08	CO4				
5	Game Theory	Concepts of Game, representation, pure strategy and mixed strategy. Two person Zero sum game, Constant & Non-constant sum game. Prisoner's Dilemma, Dominance, Nash Equilibrium, Value of a Game, Saddle Point Solution, Simple Applications.	08	CO5				
Reference Books:								
Allen, R.G.D (2006): Mathematical Analysis For Economists, Macmillan And Company Limited								
C. Chiang and K. Wainwright (2005): Fundamental Methods of Mathematical Economics, McGraw Hill International Edition.								
T. Yamane (2012): Mathematics for Economists, Prentice-Hall of India								
K. Sydsaeter and P. J. Hammond (2002): Mathematics for Economic Analysis, Pearson Educational Asia								
Mehta and Madnani: Mathematics for Economists, New Delhi: Sultan Chand Company								
Dixit, A.K. (1990), Optimization in Economic Theory, 2nd Edition, Oxford University Press, London.								
e-Learning Source:								
https://byius.com/maths/differential-equation/								

https://www.youtube.com/watch?v=-_POEWfygmU

Course Articulation Matrix (Mapping of Cos with POs and PSOs)																
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO																
CO1	1	2	1	2	1	2	2	1	1	2	1	2	2	2	2	1
CO2	2	1	2	1	1	2	1	2	2	1	1	1	1	2	1	2
CO3	2	1	2	2	1	1	2	1	2	2	1	2	2	1	2	1
CO4	2	1	2	1	2	1	1	2	2	1	2	1	1	1	1	2
CO5	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1

Name & Sign of Program Coordinator	
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