

# Fergusson College (Autonomous), Pune

# Learning Outcomes-Based Curriculum for M.A. II - Economics

# NEP 2020

With effect from Academic Year

2024-2025

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	Program Outcomes (POs) for M.A Programme
PO1	Disciplinary Knowledge:           Demonstrate comprehensive knowledge and a strong theoretical grounding in their area of work.
PO2	Critical Thinking and Problem solving: Identify problems by closely examining the situations around them and think holistically about the phenomena and generate viable solutions to these problems. Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
PO3	<b>Social competence and communication skills:</b> Demonstratability to accommodate the views of others and present their own opinions and complex ideas, in written or oral form, in a clear and concise manner in group settings. Exhibit thoughts and ideas effectively in writing and orally: communicate with others using appropriate media, build effective interactive and presenting skills to meet global competencies. Elicit views of others, present complex information in a clear and concise and help reach conclusion in group settings.
PO4	Research-related skills and Scientific temper: Infer scientific literature, build sense of enquiry and able to formulate, test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to find answers. Able to plan and write a research paper/project while emphasizing on academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
PO5	Trans-disciplinary research competence:         Create new conceptual, theoretical and methodological innovations that integrates and transcends beyond discipline-specific approaches to address a common problem.
PO6	Personal and professional competence:         Perform independently and also collaboratively as a part of team to meet defined objectives and carry out work across interdisciplinary fields. Execute interpersonal relationships, self-motivation and adaptability skills and commit to professional ethics.
PO7	<b>Effective Citizenship and Ethics:</b> Demonstrate empathetic social concern and equity centred national development and act with an informed awareness of moral and ethical issues and commit to professional ethics and responsibility.
PO8	<b>Environment and Sustainability</b> : Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
PO9	Self-directed and Life-long learning: Demonstrate attitudes of being a life-long learner who passionately pursues self- determined goals in the broadest context of socio-technological changes. Acquire theability to engage in independent and life-long learning in the broadest context of socio-technological changes.

PSO No.	Program Specific Outcomes(PSOs) Upon completion of this programme the student will be able to
PSO1	<ul> <li>Academic Competence:</li> <li>(i) To understand theoretical and analytical aspects involved with advanced economic theories and concepts.</li> <li>(ii) To conduct economic analysis using mathematical and statistical techniques.</li> </ul>
PSO2	<b>Personal and Professional Competence:</b> (i) To apply both oral and written communication skills within the discipline.
PSO3	<b>Research Competence:</b> (i) To identify and demonstrate research questions in Economics and conduct the research independently with the help of qualitative and quantitative methodologies.
PSO4	<ul> <li>Entrepreneurial and Social Competence:</li> <li>(i) To apply economic theory to real world issues.</li> <li>(ii) To critically analyse and evaluate economic issues in the country and around the world.</li> </ul>

# Programme Structure

Year	Course Code	Course Title	Credits
		Semester I	
	ECO -501	Micro Economics-I	4
	ECO -502	Public Economics-I	4
	ECO -503	Macro Economics-I	4
	ECO -504 OR	Statistical Techniques	4
F.Y. M.A.	ECO -505	Indian Economic Policy	
	ECO -510	Research Methodology	4
		Semester II	
	ECO -551	Micro Economics-II	4
	ECO -552	Public Economics-II	4
	ECO -553	Macro Economics-II	4
	ECO -554 OR	Mathematical Economics	4
	ECO -555	Agricultural Economics	
	ECO -560	OJT/FP	.6
		OJT: On Job Training: Internship/ Apprenticeship; FP: Field projects	
		Semester III	
	ECO -601	International Economics and Finance-I	4
	ECO -602	Growth & Development-I	4
	ECO- 603	Modern Banking	4
	ECO -604 OR	World Economy	4
S.Y. M.A.	ECO -605	Econometrics	-
	ECO -610	Research Project I	4
		Semester IV	
	ECO -651	International Economics and Finance-II	4
	ECO -652	Growth & Development-II	4
	ECO-653	Advanced Research Methods	2
	ECO -654 OR	Economics of Environment	2
	ECO -655	Economics of Finance	1
	ECO -660	Research Project II	6

	SY MA Semester III	
ECO601	International Economics and Finance I	Number of Credits: 04
	Course Outcomes (COs)	
	On completion of the course, the students will be able to:	
CO1	Understand advanced level of theoretical and factual nuanc finance	es of trade and
CO2	Analyse export and import management	
CO3	Comprehend international economy and financial management economy	in an open
CO4	Analyse trade and investment patterns	
CO5	Analyse foreign trade production, finance and foreign trade acc	counting
CO6	Comprehend basic functions of trade and finance transactions	

Unit No.		Title of Unit and Contents	No. of Lectures
Ι	Interr	national Economy and Globalization	8
	1.1	Overview of International Economics and Globalization	
	1.2	Concepts of Gains from Trade, Pattern of Trade and terms	
		of trade,Foreign Trade Multiplier	
	1.3	Meaning and different shapes of Production Possibility	
		Frontier	
II	Interr	national Trade Theories: Orthodox and New	16
	2.1	Mercantilism	
	2.2	Adam Smith's Absolute Cost Advantage	
	2.3	David Ricardo's Principle of Comparative Advantage	
	2.4	New trade theories:	
	Sk	cill as a Source of Comparative Advantage	
	2.5	Increasing Returns to Scale and Comparative Advantage	
	2.6	External Economies of Scale and Comparative Advantage	
	2.7	Linder Hypothesis	
	2.8	Intra-industry Trade, Gruber-Lloyd Index	
	2.9	Product Life Cycle Theory – Vernon	
	2.10	Government Regulatory Policies and Comparative	
		Advantage Transportation Costs and Comparative	
		Advantage	
III	Tariff	fs & Nontariff Trade Barriers	18
	3.1	The Tariff Concept	
	3.2	Types of Tariffs	
	3.3	Tariff Effects: An Overview	
	3.4	Tariff Welfare Effects: Consumer Surplus and Producer	
		Surplus	
	3.5	Tariff Welfare Effects: Small-Nation Model	
	3.6	Tariff Welfare Effects: Large-Nation Model	
	3.7	How a Tariff Burdens Exporters	
	3.8	Import Quota, Types of Quotas, Quotas Versus Tariffs,	
		Tariff-Rate Quota: A Two-Tier Tariff, Export Quotas,	
		Domestic Content Requirements, Subsidies, Dumping.	

IV	Trade Regulations and Industrial Policy	18
	4.1 General Agreement on Tariffs and Trade	
	4.2 World Trade Organization	
	4.3 Protection From Imports	
	4.4 Protection Against Foreign Dumping/Export subsidies	
	4.5 Foreign Trade policy of India	
	4.6 Developing-Nation Trade Characteristics	
	4.7 Trade Problems of the Developing Nations	
	4.8 The OPEC Oil Cartel	

- 1. Paul R. Krugman & Maurice Obstfeld (2009) International Economics Theory and Policy. Pearson Education Publication New Delhi
- 2. Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River, N.J., New York.
- 3. Robert J. Carbaugh, International Economics
- 4. James Gerber (2012) International Economics Pearson Publication. New Delhi
- 5. Chacholiades, M. (1990), International Trade : Theory and Policy, McGraw Hill, Kogakusha, Japan.
- 6. Kindleberger, C.P. International Economics, R.D. Irwin, Homewood.
- 7. Soderston, Bo (2005), International Economics, The Macmillan Press Ltd., London

ECO602	Growth and Development-I	Number of Credits: 04
	Course Outcomes (COs)	
	On completion of the course, the students will be able to:	
	Familiarise students with the concepts of growth and development and developing countries.	ent in LDC's
CO2	Discuss the issues of economic development	
	Examine the evolution of growth models as well as important corpoverty, inequality and population dynamics in the context of d countries.	eveloping
	Examine the theory of demographic transition, rural urban mig problems in urban and rural areas.	ration,
CO5	Discuss issues of urbanization	

Unit No.	Title of Unit and Contents	No.of. Lectures
I	Development and Underdevelopment: An Overview	15
	<ul> <li>1.1 Concepts of growth and Development</li> <li>1.2 Problems in defining economic development</li> <li>1.3 Characteristics of LDCs – structural view of underdevelopment</li> <li>1.4 The world distribution of income and Development gap</li> <li>1.5 Per capita income as an index of development</li> <li>1.6 Alternative measures of development gap – HDI, PCI, HPI, PQLI, Planetary pressure adjusted HDI</li> </ul>	

II	Poverty and inequality	15
	<ul> <li>2.1 Defining poverty and problems of measurement</li> <li>2.2 Income distribution - Income inequality, measurements o inequality, understanding inequality in developed and underdeveloped worlds; Vicious circle of poverty</li> <li>2.3 Impact of inequality on the process of development</li> </ul>	
	2.4 Debate on poverty in India	
III	Theories of Economic Growth and Development	15
	3.1 The Harrod Domar growth model and its application to LDCSs	)
	3.2 The Cobb Douglas Production Function	
	3.3 Karl Marx and Schumpeter – surplus labour	
	3.4 Big push (Rosenstein–Rodan)	
	3.5 Balanced growth : (Nurkse) & Unbalanced growth (Hirschman)	1
	3.6 The Sen –Bhagwati Debate	
	3.7 Dual-economy models – broad policy implications -Lewis Ranis-Fei, models and limitations	,
	3.8 The process of cumulative causation (Myrdal)	
	3.9 The centre and periphery hypothesis – the dependency school	7
IV	Population growth and economic development	15
	4.1 Population and Economic development in India	
	4.2 Population– the theory of demographic transition	
	4.3 Age structures of population and Sex ratio, Rural-urban migration and urban unemployment (Harris-Todaro model)	)
	4.4 Problems of urbanization – Sanitation, Transportation, Housing, Employment markets formal, informal.	
	4.5 Rural-urban wage-gap (Labour turnover model and wage- efficiency model – their extensions and limitations)	

- 1. Todaro & Smith, Economic Development, Pearson
- 2. Debraj Ray Development Economics, Oxford
- 3. Behrman, S. and T.N. Srinivasan (1995), Handbook of Development Economics, Vol. 3, Elsevier, Amsterdam.
- 4. Thirwal, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
- 5. Brown, M. (1966), On the Theory and Measurement of Technical Change, Cambridge University Press, Cambridge, Mass.
- 6. Chenery, H. and T.N. Srinivasan (Eds.) (1989), Handbook of Development Economics, Vols.1 & 2, Elsevier, Amsterdam.
- 7. Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- 8. Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), Economics of Development, (3rd Edition), W.W. Norton, New York.
- 9. Kindleberger, C.P. (1977), Economic Development, (3rd Edition), McGraw Hill, New York Economics
- 10. Meier, G.M. (1995), Leading Issues in Economic Development, (6th Edition), Oxford University Press, New Delhi.
- 11. Todaro, M.P. (1996), (6th Edition), Economic Development, Longman, London.
- 12. Meier G.M. leading Issues in Development Economics

ECO603	Modern Banking	Number of Credits: 04
	Course Outcomes (COs)	L
	On completion of the course, the students will be able to:	
CO1	Show the role of Financial system in economic development how bank works for their liquidity, safety & profitability & sheet.	
CO2	Classify the whole structure of NBFCs in India and explain the role of IMF, IBRD, IDA, IFC.	ne working and
CO3	Examine the role & nature of Foreign Exchange markets & Indian.	its impacts on
CO4	Differentiate between the forms of foreign capital & regulation	n of it.
CO5	Evaluate the impacts of Global Financial Crisis 2008 on developing countries.	developed &
CO6	Formulate solutions to the problems ahead to banking sector.	

Unit. No.		Title of Unit and Contents	No. of.
	T	1	Lectures
Ι		duction	16
	1.1	Nature, Structure and Role of Financial System in	
	1.0	Economic Development	
	1.2	Functions of Financial System	
	1.3	Theory of Financial Development: Multiple Credit Creation Theory	
	1.4	Investment Policy of a Bank - Liquidity, Safety and	
		Profitability.	
	1.5	Balance Sheet of a Commercial Bank.	
II	Mode	ern Banking in India	28
	2.1	Evolution, Role and Functions of Modern Banks in	
		India	
	2.2	Role of RBI in Modern Banking	
	2.3	Indian Money Market - Characteristics and Functions	
	2.4	Indian Capital Market - Characteristics and Functions	
	2.5	Reforms of Indian Money and Capital Market after 1991	
	2.6	Changing Trends in Banking Sector since 1991	
	2.7	Comments on the Present Status of Cooperative Banks and RRB	
	2.8	Foreign Banks in India and Their Impact on Indian	
	2.0	Banking Sector	
	2.9	Capital Adequacy - Basel 2 & 3	
	2.10	Bank Holding Companies: Public and Private (EXIM	
		Bank, SPB, ICICI & IDBI)	
	2.11	Current Challenges Faced by Banking Sector –	
		Mergers and Amalgamations	
	2.12	Introduction to Financial Inclusion, and Benefits of	
		Financial Inclusion	
	2.13	Other Topics: Microfinance, SHGs, and Chit Funds	

III	Non-Banking Financial Institutions in India	16
	3.1 Nature, Types and Significance of NBFIs in India	
	3.2 Growth of NBFCs & Overview of Regulation of	
	NBFCs in Current Scenario.	
<b>References:</b>		
1. Bhole,	L. M. [2000]' Indian Financial System,' Chugh Publications, Alla	ahabad.
2. Bhole,	L. M. [2012]. 'Financial Institutions and Markets,' Tata McGraw	Hill Co. Ltd
New D	elhi.	
3. Pathak,	Bharati. [2009]'The Indian Financial System, 'Pearson Education	n Publicatio
New D	elhi.	
4. Harker,	, P.T. and S. A. Zenios.[2000]Ed. 'Performance of Financial Insti	tutions, CUI
UK.		
5. Prasad,	K.N.[2001] 'Development of India's Financial System,' Sarup a	nd Sons, Ne
Delhi.		-
6. D. Mur	alidharan.[2009]'Modern Banking Theory and Practice,' PHI Lea	arning Pvt.
Ltd. Ne	ew Delhi.	C
7. Sharma	, K.C.[2007]'Modern Banking in India,' Deep and Deep Pub. Ne	w Delhi.
	R.K. [2009]' Modern Banking in India – Dimensions and Risk' N	
	ew Delhi.	2
9. Shiller,	Robert J.[]2008 'The Sub-Prime Solutions- How Today's Globa	l Financial
	happened and what to do about it.'	
10. Interna	tional Banking' Ed. MacMillan Pvt. Ltd. 2011. Indian Institution	of Banking
	ance, New Delhi.	C
11. Practice	e of Law and Banking- G.S. Gill	
Other Readin		
1. RBI Ar	inual Reports and web site	
	s on Currency and Finance	
	Committee Report on Banking Supervision, 2001.	
	Illetins, Economic and Political Weekly issues, Prajnan [NIBM] I	Daily, The
	nic Times etc.	•

ECO604	World Economy	Number of Credits: 04
	Course Outcomes (COs)	
	On completion of the course, the students will be able to	<b>D:</b>
CO1	Describe the state of the world economy in the 21 <sup>st</sup> Century	/.
CO2	Discuss common issues faced by the world e. g. world rece trends, impact of fluctuating prices of crude oil, gold etc.	ession, inflationary
CO3	Examine these global economic issues in the light of In efforts.	dia's developmen
CO4	Analyse the development of the world economy over the ye	ears.
CO5	Evaluate the role played by various Economic organizati Trading Blocs.	ions and Regiona
CO6	Create recommended solutions towards world crises scenar	ios.

Unit. No	Title of Unit and Contents	No. of.
		Lectures

Ι	Introduction to Global Economy	10
	1.1. Meaning of Global Economy and its History	
	1.2. Structure and Components of Global Economy	
	1.3. Role of MNC's in World Economic Development	
	1.4. Effects of Globalization on Indian Economy	
II	Regional Trade Blocs in the developed and developing	20
	economies	
	Objectives and Role of:	
	2.1. OECD - Organization for Economic Cooperation and	
	Development	
	2.2. OPEC - Organization of Petroleum Exporting	
	Countries	
	2.3. EU - European Union and Creation of Euro	
	2.4. ASEAN - Association of South East Asian Nations	
	2.5. SAARC - South Asian Association for Regional	
	Cooperation	
	2.6. BRICS – Brazil, Russia, India, China and South Africa	
III	Introduction to transition economies.	18
	3.1 Eastern Europe	
	3.2 Disintegration of the Soviet Union. What has been its	
	impact on the region, Instability in the Balkans,	
	Integration of former Soviet Bloc countries in the EU.	
	3.3 China: The emergence of China in world trade and	
	industry, growth reforms.	
	3.4 Africa: Composition of the industry and trade,	
	Possibilities and limitations.	
	3.5 Latin America: Debt crises. Brazil. Argentina. Mexico.	
IV	Major World Economic Issues and its impact on India	12
	4.1. Issues in South East Asia – The flying geese model	
	4.2. The Japanese bubble in real estate	
	4.3. U.S. Debt Crisis and its impact on India	
	4.4. Euro zone Crisis and its impact on India	

- 1. Francis Cherunilam .International Economics- The McGraw Hill Education Private limited, New Delhi
- 2. KenchandKeswani, International relations in Modern World, Himalaya Publication
- 3. P. V. Patwardhan ,World Economy 1914-1964, , Rajas Publication
- 4. Johnson Harry, World Economy at the crossroads, Oxford University Press
- 5. World Development Report
- 6. Sharieff Afzal, World Political Geography Sarip Book Publication
- 7. Mishra and Puri , Indian Economy, Himalaya Publication
- 8. Bimal Jalan (2002) India's Economy in the New Millenium Bimal Jalan (2005) The Future of India: Politics, Economics and Governance

Econometrics	Number of Credits: 04			
Course Outcomes (COs) On completion of the course, the students will be able to:				
CO1 Illustrate the use of statistical techniques to analyse Economic data relations.				
	Course Outcomes (COs) On completion of the course, the students will be ab Illustrate the use of statistical techniques to analyse			

CO2	Understand regression models.
CO3	Carry out hypothesis testing.
CO4	Break down economic relationships with regression model.
CO5	Evaluate statistical significance of relationships.
CO6	Select appropriate statistical models for use in economic modelling. Generate economic models using simultaneous equations, qualitative data and time series data.

Unit. No.		Title of Unit and Contents	
Ι	Intro	duction to Econometrics	Lectures 6
-	1.1	Introduction	Ū
	1.2	Uses of econometrics,	
	1.3	Specification of mathematical model and econometric	
	1.0	model.	
	1.4	Types of Econometrics, Types of data	
II		e-Equation Regression Models	20
	2.1	Two-Variable Regression Model -The Classical Linear	_0
	2.1	Regression Model	
	2.2	The Assumptions Underlying the Method of Least	
	2.2	Squares Estimation - The Method of Ordinary Least	
		Squares Properties of Least-Squares Estimators:	
	2.3	The Gauss-Markov Theorem;	
	2.3	The Coefficient of Determination $R^2$ : A Measure of	
	2.4	"Goodness of Fit"	
	2.5	Classical Normal Linear Regression Model (CNLRM),	
	2.5		
	2.0	Properties of OLS estimators under the normality	
	27	assumption, the method of maximum likelihood (ML)	
	2.7	Demonstration and application through software	10
III		val estimation and hypothesis testing	12
	3.1	Confidence intervals for regression coefficients	
	3.2	Hypothesis testing: confidence interval approach -	
		two-sided test, one-sided test	
	3.3	Hypothesis testing: the test of significance approach	
	3.4	Demonstratiion and application through software	
IV	Multi	ple regression analysis	12
	4.1	Three	
		variable model; notation, assumption, interpretation	
	4.2	The	
		multiple coefficient of determination $R^2$ and the	
		Multiple coefficient of correlation R	
	4.3	Regressio	
	1.5	n with Dummy Variables (ANOVA)	
	4.4	Testing	
	7.7	for Structural Stability	
	4.5	Interactio	
	4.5	n Effects.	
	16		
	4.6	Use of	
		Dummy variables in Seasonal Analysis, use of	
		dummy variables inCombining Time series and	
		Cross Sectional Data	
	4.7	Demonstr	

	atiion and application through software	
V	Violations of Assumptions	6
	5.1 Heteroscedasticity	
	5.2 Autocorrelation	
	5.3 Multicollinearity	
	5.4 Specification Bias	
	5.5 Demonstratiion and application through software	
VI	Advanced topics in Econometrics	4
	6.1 Simultaneous Equations Model – Identification	
	problem, Order and Rank Conditions, ILS, 2-SLS	
	6.2 Qualitative Response Variable Models – LOGIT,	
	TOBIT& PROBIT	
	6.3 Time Series – Random Walk Models, Unit Root	
	Processes, Tests for Stationarity	
	6.4 Demonstratiion and application through software	

- 1. Damodar Gujarati: Basic Econometrics
- 2. A. H. Studenmund: Using Econometrics: A Practical Guide
- 3. Christopher Dougherty: Introduction to Econometrics
- 4. D. M. Nachane: Econometrics Theoretical Foundations and Empirical Perspective
- 5. Jeffrey Wooldridge: Introductory Econometrics: A Modern Approach
- 6. Koutsoyinnis: Theory of Econometrics
- 7. G. S. Maddala: Introduction to Econometrics
- 8. G. S. Maddala: Econometric Methods
- 9. Hamilton: Time Series Econometrics

	SY MA Semester III				
ECO651	International Economics and Finance II Num Cred				
	Course Outcomes (COs)				
	On completion of the course, the students will be able to:				
CO1	Understand advanced level of theoretical and factual nuan finance	ces of trade and			
CO2	Analyse export and import management				
CO3	Comprehend international economy and financial managemer economy	t in an open			
CO4	Analyse trade and investment patterns				
CO5	Analyse foreign trade production, finance and foreign trade ac	counting			
CO6	Articulate various trade finance instruments via experiential le	earning			

Unit No.	Title of Unit and Contents	No. of
		Lectures

Ι	0	nal Trading Arrangements and Economic I nternational Trade Accounting: The Balanc	e
	Paym	-	
	1.1		egional
	1.1	Integration Versus Multilateralism	Slonar
	1.2	0	pes of
	1.2	Regional Trading Arrangements	
	1.3	• • •	fects of a
	1.5		iects of a
	1.4	Regional Trading Arrangement	Europeen
	1.4	Union	ne European
	1.5		onomia Costa
	1.5		conomic Costs
		and Benefits of a Common Currency: The Eu	nopean
	1.6	Monetary Union	
	1.6	Tł Multinational Enternaisa	le
	1 7	Multinational Enterprise	atives for
	1.7		otives for
	1.0	Foreign Direct Investment	
	1.8		ipplying
		Products to Foreign Buyers: Whether to Prod	luce
		Domestically or Abroad	
	1.9		ountry Risk
		Analysis	
	1.10		ternational
		Joint Ventures	
	1.11	In	ternational
		Labor Mobility: Migration	
II	The B	alance of Payments and Foreign Exchange	11
	2.1		ouble-Entry
		Accounting	
	2.2	In	ternational
		Payments Process	
	2.3	-	alance of
		Payment structure	
	2.4	•	oreign-
		Exchange Market	
	2.5	-	pes of
		Foreign-Exchange Transactions	1 -
	2.6	• •	terbank
		Trading	
	2.7		orward and
	2.1	Futures Markets	
	2.8		oreign-
	2.0	Currency Options	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	2.9		change Pote
	2.9	Determination	change-Rate
	2 10		day as of the
	2.10		dexes of the
		Foreign-Exchange Value of the Dollar: Nom	mai and Keal
	0.11	Exchange Rates	1.4
	2.11		rbitrage,
	0.10	Hedging, Speculation	
	2.12		terest
	1	Arbitrage	

III	Euch	ange Date Determination and Machanisms of	8	
111		ange-Rate Determination and Mechanisms of	ð	
	3.1	national Adjustment What		
	5.1			
	3.2	Determines Exchange Rates?		
	5.2	Determining		
	3.3	Long-Term Exchange Rates		
	5.5	Determining Short Term Evaluate Dates: The Asset Market Approach		
157	<b>T</b> le	Short-Term Exchange Rates: The Asset-Market Approach	0	
IV		ange-Rate Adjustments and the Balance of Payments	9	
		change-Rate Systems and Currency Crises		
	4.1	J-Curve Effect:		
	1.2	Time Path of Depreciation		
	4.2	Fixed		
	4.3	Exchange-Rate System,		
	4.5	Floating Floating		
	4.4	Exchange Rates,		
	4.4	Electing Potes		
V	Maan	Floating Rates	9	
v	5.1	oeconomic Policy in an Open Economy	9	
	5.1	Monetary in a Closed Economy		
	5.2	Fiscal Policy in		
	5.2	a Closed Economy		
	5.3	Monetary in a		
	5.5	Open Economy		
	5.4	Fiscal Policy in		
	5.4	an Open Economy		
VI	Inter	International Banking: Reserves, Debt, and Risk		
VI.	6.1	Financing of	11	
	0.1	Foreign Trade: Pre-shipment/Post-shipment finance,		
	6.2	Instruments:		
	5.2	Letter of credit, Packaging credit, Bill of Lading,		
	6.3	Other		
		instruments: Factoring, Forfeiting, Buyer's credit,		
		Suppliers' credit, Overdraft, etc.		
	1			

- 1. Heller, Robert H,, NJ: International Monetary Economics Prentice Hall, Englewood Cliffs
- 2. Kindleberger, Charls P., D.B.International Economics, Taraporewala and Sons, Mumbai
- 3. Rugel, Thomas A. International Economics, McGraw Hill, New Delhi.
- 4. Ellsworth P.T. and Clark J.Leith, The International Economy New York Macmillan Publishing Co.
- 5. RBI, Report ON Currency and Finance (annul).
- 6. Gowda, Venkatagiri K., Eurodollar Flows and International Monetary Stability, Geetha Book House, Mysore.
- 7. Verghese, S.K., Foreign Exchange and Financing of Foreign Trade, Vikas Publishing House, New Delhi.
- 8. Heller, Robert, H., International Monetary Economics Prentice Hall, Cliffs.
- 9. Salvatore, Dominick, International Economics Macmillan, New York Publishing Co. New York
- 10. International Trade Finance, Indian Institute of Banking and Finance, India.

11. Tarsem Bhogal; Arun Trivedi, International Trade and Finance, Palgrave Publication, New Delhi.

ECO652	Growth and Development-II	Number of Credits: 04
	Course Outcomes (COs) On completion of the course, the students will be able to:	I
CO1	Familiarise students with the problems of growth and development in developing and developed countries	
CO2	Articulate the role of agriculture and industrial sector in the development process of developing countries.	
CO3	Examine the various development models pertaining to financin in developing countries	ng development
CO4	Discuss issues affecting economic development in the modern world, concerning gender equality, forms of governance, political stability etc. And to study strategies relating to the same.	
CO5	Analyze the role of the government in the process of development and growth of a economy.	

Unit No.	Title of Unit and Contents	No. of Lectures
Ι	The role of agriculture and Industry in development	15
	1.1 Role of Agriculture in development 'Market surplus' Size of	
	holding, Price policy-FPC	
	1.2 Disguised unemployment	
	1.3 Role of industry – Major reasons for industrialization in LDCs	
	1.4 The Role of Infrastructure – social and physical infrastructure –	
	education and health infrastructure	
II	Policy Environment for growth and development	15
	2.1 The infant industry argument – The employment argument	
	Policy Environment	
	2.2 Ease of doing business India	
	2.3 Monetary Policy – trade policy	
	2.4 Trade as an engine of growth - foreign borrowing - Savings -	
	Investment gap – The foreign exchange gap	
	2.5 Foreign borrowing and debt – servicing problem	
III	Financing Development	15
	3.1 Prior Savings approach	
	3.2 Fiscal Policy and Taxation	
	3.3 Tax Reform in Developing Countries	
	3.3.1 Inflation, Saving and Growth	
	Daga 15 of 20	

	3.3.2 Foreign Direct Investment	
	3.4 The Keynesian Approach to the Financing of Development	
	3.5 The Quantity Theory Approach to the Financing of	
	Development	
	3.6 The Dangers of Inflation	
IV	The role of the government	15
	4.1 Market failures, government failures, role and emergence of	
	institutions, role of state in economic development	
	4.2 Disinvestment Policy	
	4.3 Corruption - sources of corruption, channels through which it	
	impacts economic development directly and indirectly, critical	
	analysis of potential strategies to tackle corruption	
	4.4 Major Indian Policy reforms for growth and Development	
	4.5 Recent issues in Gender Development	

- 1. Thirlwall, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
- 2. Ray, D. (1998). Development Ecoomics. Princeton University Press.
- 3. Todaro, M. P., & Smith, S. C. *Economic Development*. Addison-Wesley.
- Chenery, H. and T.N. Srinivasan (Eds.) (1989), Handbook of Development Economics, Vols.1 & 2, Elsevier, Amsterdam.
- 5. Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), Economics of Development, (3rd Edition), W.W. Norton, New York.
- 7. Kindleberger, C.P. (1977), Economic Development, (3rd Edition), McGraw Hill, New York
- Meier, G.M. (1995), Leading Issues in Economic Development, (6<sup>th</sup> Edition), Oxford University Press, New Delhi.
- 9. Todaro, M.P. (1996), (6th Edition), Economic Development, Longman, London.
- 10. NIPFP An autonomous research institute under the Ministry of Finance.
- 11. Economic and Political Weekly.

ECO653	Research Methodology	Number of Credits: 04
	Course Outcomes (COs) On completion of the course, the students will be able to:	
CO1	Identify the information systems or sources of Internet.	

CO2	Categorise collected data by classification & tabulation and by using graphs & diagrams.
CO3	Employ statistical techniques to use like ANOVA and regression using SPPS and other software.
CO4	Identify the criteria for good research.
CO5	Decide on appropriate research techniques to use.
CO6	Prepare a research report by understanding stages & types of report writing and formulate a research problem hypothesis & research design.

Unit. No.		Title of Unit and Contents	No. of
T	T 4	de d'an 4a Danaard Mathadalaar	Lectures
I		oduction to Research Methodology	15
	1.1	Social Science Research – Objectives, Nature,	
	1.2	Importance, Utility, Limitations and Difficulties Types of Research	
	1.2		
	1.5	Meaning & Need for Research Design, and Stages	
	1.4	Involved in Designing of Research Research Eco System – Funding Models	
	1.4		
	1.5	Research Ethics – Intellectual Property Rights (IPR) Research Process – Criteria of Good Research	
	1.0		
II		Problems Encountered by Researchers in India	15
11		ces of Data & Research Techniques	15
	2.1	Data Collection - Sources of Data: Big Data and	
	2.2	Technology	
	2.2	Primary - Interviews, Questionnaire, Observation, and Schedule	
	2.2		
	2.3	Collection of Secondary Data	
	2.4	Case Studies & Historical Methods, and Experiments	
	2.5	& Surveys	
	2.5	Hypothesis - Definition, Formulation and Role	
	2.6	Sampling Technique – Need for Sampling,	
		Fundamental Definitions, Types of Samples: Non-	
		Probability Samples & Probability Samples, and Size	
	D	of Samples	1 =
III		arch – Qualitative and Quantitative	15
	3.1	Classification and Tabulation, Coding, Editing, and	
	2.2	Questionnaire Checking	
	3.2	Graphs and Diagrams.	
	3.3	Measures of Central Tendencies: Mean, Median, and	
	2.4	Mode	
	3.4	Dispersion & Correlation	
	3.5	Percentage & Bi-Variate Presentation	
	3.6	Hypothesis Testing, T-Test, and Chi Square Test	
<b>TX</b> 7	3.7	Application – Analysis of Data with Excel	1 6
IV		mation Systems & Visual Analytics	15
	4.1 4.2	Information Systems, and Knowledge Management.	
	4.2	Global Information - Internet Surfing, Downloading,	
	12	Blogs, and Mails. Stagge of Bonort Writing Significance of Bonort	
	4.3	Stages of Report Writing- Significance of Report	
	1 1	Writing, and Types of Reports	
	4.4	Presentation - Power Point	

- 1. Wilkinson and Bhandarkar Methodology and Techniques of Social research -Pauline, Young - Scientific Social Surveys and Research
- 2. Goode and Hatt Methods in Social Surveys and Research
- 3. Krishnaswamy K.N. and Appa lyer Sivakumar (2009): Management Research Methodology, Pearson Education

Publication, N.Delhi

- 4. Sharma Prasad and Satyanarayana (ed) Research Methods in Social Sciences
- 5. Moser and Kalton Survey Methods in Social Investigations
- 6. Sadhu and Singh Research Methodology in Social Sciences
- 7. Kurein C. T. A guide to research in Economics.
- 8. Devendra Thakur Research Methodology in Social Sciences
- 9. Basotia G.R. Sharma K.K.- Research Methodology.
- 10. Dr. Pushpa Ranade Research Methodology & Techniques (Marathi Edition), Diamond Publications

# Additional Reading List

- 1. Acoff. Russel L.(1961) The Design of Social Research, Chicago, Uni. of Chicago,
- 2. Allen, T. Harrell (1978) New Methods in Social Science Research. New York;Praeges Publishes.
- 3. Berdie, Douglas R. & Andesson, John F. (1974) Questionnaires, Design and use Metuchen N.J. the sear escrow press Inc.
- 4. Ghosh B.N. (1982) Scientific Methods & Social Research New Delhi, Sterling Publishers Pvt. Ltd.
- 5. Goode, William J. & Hatt, Paul K. (1952) Methods in Social Research, New York McGraw Hill.
- 6. Wilkinson and Bhandarkar Methodology and Techniques of Social Research.
- 7. Pauline Young : Scientific Social survey and Research
- 8. Moser and Kalton : Survey methods in Social Investigations.
- 9. Kothari C.R. Research methodology New era Publication

ECO654 Economics of Environment N		Number of	
		Credits: 02	
	<b>Course Outcomes (COs)</b>		
	On completion of the course, the students will be able to:		
CO1	Identify the key issues regarding sustainability, environmental of	legradation	
	and economic growth.		
CO2	Examine important phenomenon in the context of environmental resource		
	management.		
CO3	Specify ways in which education can be used for environmental	l protection	
	and pollution control.		
CO4	Ability to develop an understanding of the economics of enviro	nment and	
	various analytical tools to comprehend environmental issues.		

Unit No.	Titleof UnitandContents	No. of Lectures
Ι	Introduction to Economics of Environment:	15
	<ol> <li>Economics of Environment – Meaning, Nature, Scope, and Significance.</li> <li>Inter linkages between the economy and environment</li> <li>Environment as an Economic and a Social Good – Exhaustive and Renewable Common Property Resources</li> <li>Sustainable Development</li> </ol>	

II	Environmental Challenges	15
	2.1 Environment and Agricultural Development – Technological	
	Change – Use of Water, Fertilizers, Pesticides – Groundwater and	
	Forest Depletion	
	2.2 Environment and Industrial Development – Pollution,	
	Urbanization	
	2.3 Global Environmental Issues – Depletion of Ozone Layer,	
	Green House Effect, GlobalWarming, Climate Change, Loss of	
	Bio-diversity	
	2.4 India's Environmental Policy, Environment	
	Protection Laws	

- 1. Baumol, W.J. & Oates, W.E. (1997), The Theory of Environmental Policy, Prentice Hall, Englewood-cliffs
- 2 Bhattacharya, R. N. (2006), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi
- 3 Field, Barry & Field, Martha (2016), Environmental Economics: An Introduction, McGraw-Hill Education, New York.

4 Managi, Shunsuke & Kuriyama, Koichi (2017), Environmental Economics, Routledge, London and New York

5 Singh, Katar & Shishodia, Anil (2010), Environmental Economics: Theory and Applications, Sage Publications, New Delhi

6 Smith, Stephen (2011), Environmental Economics: A Very Short Introduction, Oxford University Press, New York

7 Ulaganathan, Sankar (2006), Environmental Economics, OUP, New Delhi Hanley N, Shogren J.F. & White B. Environmental Economics in Theory and Practice, Macmillan

9. Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/Addison Wesley, 3rd edition, 2003.

10Maureen L. Cropper and Wallace E. Oates, 1992, —Environmental Economics: A Survey Journal of Economic Literature, Volume 30:675-740.

ECO655	Economics of Finance	Number of
		Credits: 02
	<b>Course Outcomes (COs)</b>	
	On completion of the course, the students will be able to:	
CO1	Identify the role played by financial institutions in the growth and	
	development of an economy.	
CO2	Explain the structure and functions of the various participants of the financi	
	sector.	
CO3	CO3 Calculate security prices using the Capital Asset Pricing Model and As	
	Pricing Theory.	
CO4	Analyse the mechanism and importance of derivative instruments in the	
	functioning of the financial sector.	
Unit No.	Title of Unit and Contents	No. of
		Lectures

Ι	Financial Sector, Financial market and Economy	15
	1.5 Role, Structure and Regulations of Financial sector in India.	
	<ul> <li>1.6 Structure, Functions &amp; instruments of Financial market in India.</li> </ul>	
	<ul> <li>1.7 Role of Rate of Interest, present value and future value of income. Internal Rate of Return, Net Present Value, Payback Period, ARR – its application as an evaluation criterion.</li> </ul>	
Π	<ul> <li>Portfolio Theory and Derivatives market</li> <li>2.1 Capital asset pricing model and its validity</li> <li>2.2 Arbritage pricing theory</li> <li>2.3 Modern portfolio theory</li> <li>2.4 Derivatives - Futures Markets History, Hedgers,</li> <li>Speculators, Arbitrageurs</li> <li>2.5 Swaps &amp; Options market - Mechanics and types</li> </ul>	15

- 1. Bailey, R.E. (2009). *The Economics of Financial Markets*. Cambridge Univ. Press.
- 2. Baye, M. R., & Jansen, D. W. (1995). *Money, banking, and financial markets: aneconomicsapproach*. Houghton Mifflin.
- 3. Bodie, Z., Merton, R. C., &Cleeton, D. L. (2009). *Financial economics*. PearsonPrenticeHall.
- 4. Chandra, P. (2015). Financial Management (9thed.). McGrawHill.
- 5. Houthakker, H. S., & Williamson, P. J. (1996). *The Economics of Financial Markets*.NewYork: Oxford UniversityPress.
- 6. Hull, J., & Basu, S. (2018). Options, futures, and other derivatives. Pearson.
- 7. LeRoy, S. F., & Werner, J. (2014). *Principles of Financial Economics*. CambridgeUniversityPress.
- 8. Luenberger, D.G. (2014). Investmentscience. Oxford University Press.
- 9. Mishkin, F. S. (2016). *The Economics of Money, Banking, and Financial Markets*. Pearson.
- 10. Pathak, B.V. (2018). Indian Financial System (5eed.). Pearson.
- 11. Ross, S. A., Westerfield, R. W., & Jordan, B. D. (2019). *Fundamentals of corporatefinance*.McGraw-Hill Education.
- 12. Smith, P. F. (1978). *Money and Financial Intermediation: the theory and structure offinancialsystems*. Prentice-Hall.