# University of Mumbai



No. AAMS\_UGS/ICC/2024-25/83

#### CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the Recognized Institutions and the Head, University Departments is invited to this office circular No. AAMS\_UGS/ICC/2023-24/23 dated 08<sup>th</sup> September. 2023 relating to the NEP UG & PG Syllabus.

They are hereby informed that the recommendations made by the **Board of Studies in Economics** at its meeting held on 25<sup>th</sup> June, 2024 and subsequently passed by the Board of Deans at its meeting held on 27<sup>th</sup> June, 2024 <u>vide</u> item No. 5.2 (N) have been accepted by the Academic Council at its meeting held on 28<sup>th</sup> June. 2024 <u>vide</u> item No. 5.2 (N) and that in accordance therewith the syllabus for the M.A (Economics) (Sem. III & IV) is introduce as per appendix (NEP 2020) with effect from the academic year 2024-25.

(The circular is available on the University's website www.mu.ac.in).

MUMBAI - 400 032 20<sup>th</sup> August, 2024

(Prof.(Dr) Baliram Gaikwad) I/c Registrar

To

The Principals of the Affiliated Colleges, Directors of the Recognized Institutions and the Head, University Department.

#### A.C/5.3(N)/28/06/2024

Copy forwarded with Compliments for information to:-

- 1) The Chairman, Board of Deans,
- 2) The Dean, Faculty of Humanities,
- 3) The Chairman, Board of Studies in Economics,
- 4) The Director, Board of Examinations and Evaluation,
- 5) The Director, Board of Students Development,
- 6) The Director, Department of Information & Communication Technology.
- 7) The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari.
- 8) The Deputy Registrar, Admissions, Enrolment, Eligibility & Migration Department (AEM),



Сор	y forwarded for information and necessary action to :-
1	The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Dept)(AEM), <u>dr@eligi.mu.ac.in</u>
2	The Deputy Registrar, Result unit, Vidyanagari drresults@exam.mu.ac.in
3	The Deputy Registrar, Marks and Certificate Unit,. Vidyanagari dr.verification@mu.ac.in
4	The Deputy Registrar, Appointment Unit, Vidyanagari dr.appointment@exam.mu.ac.in
5	The Deputy Registrar, CAP Unit, Vidyanagari <u>cap.exam@mu.ac.in</u>
6	The Deputy Registrar, College Affiliations & Development Department (CAD), deputyregistrar.uni@gmail.com
7	The Deputy Registrar, PRO, Fort, (Publication Section), <u>Pro@mu.ac.in</u>
8	The Deputy Registrar, Executive Authorities Section (EA) eau120@fort.mu.ac.in
	He is requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to the above circular.
9	The Deputy Registrar, Research Administration & Promotion Cell (RAPC), <u>rapc@mu.ac.in</u>
10	The Deputy Registrar, Academic Appointments & Quality Assurance (AAQA) dy.registrar.tau.fort.mu.ac.in <u>ar.tau@fort.mu.ac.in</u>
11	The Deputy Registrar, College Teachers Approval Unit (CTA), <u>concolsection@gmail.com</u>
12	The Deputy Registrars, Finance & Accounts Section, fort draccounts@fort.mu.ac.in
13	The Deputy Registrar, Election Section, Fort drelection@election.mu.ac.in
14	The Assistant Registrar, Administrative Sub-Campus Thane, <u>thanesubcampus@mu.ac.in</u>
15	The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan, ar.seask@mu.ac.in
16	The Assistant Registrar, Ratnagiri Sub-centre, Ratnagiri, ratnagirisubcentre@gmail.com
17	The Director, Centre for Distance and Online Education (CDOE), Vidyanagari, <u>director@idol.mu.ac.in</u>
18	Director, Innovation, Incubation and Linkages, Dr. Sachin Laddha
19	Director, Department of Lifelong Learning and Extension (DLLE),

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Copy for information :-			
1	P.A to Hon'ble Vice-Chancellor, vice-chancellor@mu.ac.in		
2	P.A to Pro-Vice-Chancellor pvc@fort.mu.ac.in		
3	P.A to Registrar, registrar@fort.mu.ac.in		
4	P.A to all Deans of all Faculties		
5	P.A to Finance & Account Officers, (F & A.O), <u>camu@accounts.mu.ac.in</u>		

# To,

1	The Chairman, Board of Deans pvc@fort.mu.ac.in				
2	Faculty of Humanities,				
	Dean 1. Prof.Anil Singh <u>Dranilsingh129@gmail.com</u>				
	Associate Dean				
	2. Dr.Suchitra Naik <u>Naiksuchitra27@gmail.com</u>				
	3.Prof.Manisha Karne <u>mkarne@economics.mu.ac.in</u>				
	Faculty of Commerce & Management,				
	Dean				
	1. Dr.Kavita Laghate <u>kavitalaghate@jbims.mu.ac.in</u>				
	Associate Dean				
	2. Dr.Ravikant Balkrishna Sangurde <u>Ravikant.s.@somaiya.edu</u>				
	3. Prin.Kishori Bhagat <u>kishoribhagat@rediffmail.com</u>				

	Faculty of Science & Technology					
	Dean 1. Prof. Shivram Garje <u>ssgarje@chem.mu.ac.in</u>					
	Associate Dean					
	2. Dr. Madhav R. Rajwade <u>Madhavr64@gmail.com</u>					
	3. Prin. Deven Shah <u>sir.deven@gmail.com</u>					
	Faculty of Inter-Disciplinary Studies,					
	1.Dr. Anil K. Singh aksingh@trcl.org.in					
	Associate Dean					
	2.Prin.Chadrashekhar Ashok Chakradeo					
	<u>cachakradeo@gmail.com</u>					
3	Chairman, Board of Studies,					
4	The Director, Board of Examinations and Evaluation,					
	dboee@exam.mu.ac.in					
5	The Director, Board of Students Development,					
	dsd@mu.ac.in@gmail.com DSW direcotr@dsw.mu.ac.in					
6	The Director, Department of Information & Communication Technology,					
	director.dict@mu.ac.in					



# **University of Mumbai**



# (As per NEP 2020)

Sr.	Heading	Particulars		
No.				
1	Title of program	M.A ( Economics		
	О:В			
2	Scheme of Examination R:	NEP 50% Internal 50% External, Semester End Examination Individual Passing in Internal and External Examination		
3	Standards of Passing R:	40%		
4	Credit Structure R: HSP - 30 A R: HSP - 30 B	Attached herewith		
5	Semesters	Sem. III		
6	Program Academic Level	6.5		
7	Pattern	Semester		
8	Status	New		
9	To be implemented from Academic Year	2024-25		

Sign of the BOS Chairman Name of the Chairman BOS in Sign of the Offg. Associate Dean Name of the Associate Dean Faculty of Sign of the Offg. Associate Dean Name of the Associate Dean Faculty of

Sign of the Offg. Dean Name of the Dean Faculty of

# PREAMBLE

The M.A. (Economics) syllabus has been precisely formulated owing to its essentiality and popularity by the Board of Studies of Economics (BOS-E), the University of Mumbai, keeping up with the recent trends in the subject of economics. The BOS-E has further revised the syllabi of papers at the FY and SY as per the requirements of NEP 2020, which will be effective in the academic years 2024-25, 2025-26, and 2026-27 respectively. A broad overview of the revised structure, which includes the Mandatory, Minor, Vocational Skill Course (VSC), Skill Enhancement Course (SEC) papers, and Co-Curriculum Course.

The NEP-2020 has adopted a holistic and multidisciplinary approach to undergraduate education. It gives the students the flexibility to combine multidisciplinary subjects by integrating vocational courses. Given this, the curriculum for economics has been prepared. From this point of view, the curriculum of this course aims at imparting knowledge of the basic concepts of economics, which will help beginners study this subject. The papers, such as Entrepreneurship Development, Economic Data Analysis, Money Transaction and Consumer Protection, Basics of Agriculture, FinTech, Economic Data Visualization with Excel, Rural Marketing, Basic Statistics in Economics, etc. will contribute to the knowledge gained by students in rural as well as urban areas.

The M.A. Economics program aims to enrich the demographically critical student population of India with a comprehensive understanding of the Indian economy, public finance, budget analysis, rural enterprises, insurance, banking and financial sector, environment, and economy, among various other gravitating subjects. This course will help to build resourceful disciples who contribute to the economic development of India and therefore the world.

#### **Program Specific Outcomes:**

**PSO - 1. Analytical Skills:** Learners will be able to apply economic concepts and basic theories to analyze real-world economic issues, such as market behavior, schemes and policies, and economic trends. They will also be able to critically evaluate economic data using statistical techniques.

**PSO - 2. Critical Thinking:** The students will develop critical thinking skills and be able to analyze economic problems from multiple perspectives, consider tradeoffs, and propose innovative solutions based on economic principles.

**PSO - 3. Policy Analysis:** Economics students will be able to assess the impact of economic policies on various stakeholders and evaluate their effectiveness in achieving desired outcomes.

**PSO 4. Financial Literacy:** This course will enhance financial literacy among students concerning money, insurance, banking and finance, the share market, budget, IPR, and other aspects of the economy.

**PSO - 5. Application of Research Methods:** The students will learn to select and applyappropriate methods, techniques, sources, and modern computer applications for study as well asprofessional and personal purposes.

**PSO - 6. Development of Quantitative Skills:** The learner of economics will get acquainted with quantitative methods of statistics in economics and be able to apply these skills to analyze economic data and conduct empirical studies.

**PSO -7. Career Prospects:** The UG Economics program will enable the students to have a detailed knowledge of the skills required to be developed for entrepreneurship. Along with this, it will fulfill the needs of those who want to pursue competitive exams. This course will also make students suitable to work with the corporate sector and national and international organizations.

# The Program Outcome:

After completing this course:

- 1. The students shall be able to understand the nature of economics from a very basic toa broader point of view.
- 2. Learners will understand major issues regarding the economic development of India.
- 3. Students will be able to understand the various aspects of economic data analysis.
- 4. Students will be able to analyze the relationship between agriculture development, industrial labor, management of exports and imports, rural enterprises, and the Indian economy.
- 5. The completion of this course will help the student appear for various competitive examinations.
- 6. Finally, the students will be able to develop analytical, evaluation, and entrepreneurship skills after completing the course.

#### <u>R: HSP - 30 B</u>

Post Graduate Programs in University

Parishishta - 1

Year 2 Years	Level	Sem	Specific Components (Major- Specialization Papers)		Minor	OJT / FP	RP	Cumu lative Credit s	Degree
			Mandatory	Electives					
II	6.5	I	<ol> <li>MICRO ECONOMICS- II (4)</li> <li>MACRO ECONOMICS-II (4)</li> <li>GROWTH AND DEVELOPMENT ECONOMICS (4)</li> <li>MONEY AND BANKING- I (2)</li> </ol>	5. DEMOGRAPHY: THEORY & POLICY (4) OR 5. STATISTICAL METHODS IN ECONOMICS (4) OR 5. ENVIRONMENTAL ECONOMICS (4) OR 5. ECONOMICS OF AGRICULTURAL PRODUCTION & RURAL MARKETS (4)		-	4	22	PG Degree (After 3 Year UG Degree)
		IV	1.AGRICULTURAL DEVELOPMENT & POLICY (4) 2.INDUSTRIAL RELATIONS IN INDIA (4) 3.MONEY AND BANKING - II (2) 4.REGIONAL ECONOMIC THEORY (2)	5. THEORY OF MONETARY INSTITUTIONS (4) OR 5. INTRODUCTION TO ECONOMETRICS (4) OR 5. GENDER ECONOMICS (4) OR 5. BEHAVIORAL ECONOMICS (4)			6	22	
Cum. Cr. For 1 Year PG 26 Degree		26	8			10	44		
Cum. Cr. For 2 Years PG 54 Degree 54		54	16	4	4	10	88		

Note: The number of Electives on offer each semester may vary



# Syllabus for Semester – III

# Name of the Course: MICRO ECONOMICS- II

#### Semester-III

Sr. No.		Heading	Particulars		
1	Description of the Course:		This course deepens students' understanding of consumer behavior by delving into microeconomic theory in great detail. The students will cover important subjects including general equilibrium, social welfare, market imperfections, public goods, and externalities. Students acquire advanced analytical skills via this investigation, enabling them to understand how businesses, governments, and individuals make economic decisions and address pressing financial issues.		
2	Vertica	1:	Mandatory Major Course		
3	Type:		Theory		
4	Credit:		4 Credits		
5	Hours A	llotted:	60 Hours		
6	Marks Allotted:		100 Marks		
7	Course Objectives: The course is designed to provide a sound understanding of microeconomic theory. Since students have been taught Consumer Behavior, this course focuses on the main pillars of microeconomics such as General Equilibrium, Social Welfare, Market Failures, Public Goods, and Externalities.				
8	Course Outcomes				
	CO1	Enables students to get	t knowledge on Consumer Behavior and General Equilibrium.		
	CO2	Create an understandin	ng of Welfare Economics and Market Failures.		
	CO3	Provides an understand	ding of the Public Good and Externalities.		
9	(This Co (IDOL) o	ourse is also applicable t of the University of Mu	to the students of the Institute of Distance & Open Learning mbai)		

# Name of the Course MICRO ECONOMICS- II

#### Semester-III

#### **Module 1: Economics of Consumption**

Choice theory and Consumer Demand- The axiomatic approach, utility representation, demand and expenditure functions, duality, Slutsky decomposition, testable implications-Choice under Uncertainty-The von-Neumann-Morgenstern axioms and expected utility theory, risk aversion.

#### Module 2: General Equilibrium

(15 Hours) General Equilibrium Analysis: Barter; General equilibrium models of exchange and production; Existence of competitive equilibria; Core of Exchange economy; Competitive equilibrium as Core allocation Uniqueness and Stability of Competitive equilibrium; Efficiency and fairness of Market Wage; Factor Price Equalization Theorem.

#### **Module 3: Welfare Economics and Market Failures**

Welfare Economics: Welfare Criteria- Fairness; Pareto optimality; Kaldor efficiency; Scitovsky Criterion; Samuelson Criterion; Cost Benefit Analysis. Social Choice; Social Welfare Function; Arrow's Impossibility Theorem and the related results- Market failure; Sources of market failure and their implications Externalities; Public Good.

#### Module 4: Public Good and Externalities

The inefficiency of market equilibrium, Optimal public good provision, Free rider problem, Lindahl taxes- Market inefficiency under externalities, Pigou tax, Coase theorem, Market creation, and other solutions

#### **References:**

- 1. Das, Satya P. (2007): Microeconomics for Business, Sage Publications India Pvt Ltd., New Delhi.
- 2. Jhingan MLL. (2012), Advanced Economic Theory, Vrinda Publications, Delhi.
- 3. Mankiw, N. G. (2018). Principles of Microeconomics 8th ed.
- 4. Misra S.K. and V.K. Puri (2001): Advanced Microeconomic Theory, Himalaya Publishing House, New Delhi.
- Mansfield, Edwin (1985), Micro-economics: Theory & Applications, 5th edition, W.W. Norton & Company, New York.
- 6. Patil K. A (Second edition, 2011, Marathi), Advanced Economic Theory-Micro Analysis, Shri Mangesh Prakashan, Nagpur.

# Credits: 4

#### (15 Hours )

# (15 Hours )

# (15 Hours )

- 7. Gravelle, H. and Rees, R. (2004): Microeconomics, 3rd Edition, Pearson Edition Limited, New Delhi.
- 8. Jehle, G. and P. Reny (2001): Advanced Microeconomic Theory, Addison Wesley.
- 9. Mas-Collel, A., M. Whinston and J. Green (1995): Microeconomic Theory, 2nd ed. Oxford University Press
- 10. Frank, R. H., & Cartwright, E. (2010). Microeconomics and behavior. New York: McGraw-Hill.
- 11. Serrano, Roberto and Feldman, Alan (2012), A short course in intermediate Microeconomics with Calculus, Cambridge University Press

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#### Name of the Course: MACRO ECONOMICS-II

#### Semester-III

Sr.		Heading	Particulars
1	Descrip	tion of the Course:	Macroeconomics-II is modern macroeconomics in that it deals with the New Classical and New Keynesian frameworks. By this time, the compulsory mathematics course will have been covered and students can appreciate the techniques of dynamic optimization that underlie the course. Here too, the texts are only suggestive and others may be used.
2	Vertical	:	Mandatory Major Course
3	Type:		Theory
4	Credit:		4 Credits
5	Hours A	llotted:	60 Hours
6	Marks A	Allotted:	100 Marks
	<ul> <li>To economic of the ec</li></ul>	o provide students a conomic outcomes as ducating students on anction of expectatio o enhance students' gnificance of market o equip students the eir consequences an	thorough knowledge of the effects of imperfectly flexible pricing on s well as market flaws. the fundamentals of New Classical Economics, with an emphasis on the ns and market-clearing mechanisms. understanding of New Keynesian Economics by highlighting the frictions and price stickiness. skills necessary to assess macroeconomic policies, taking into account d efficacy in various economic scenarios.
8	Course O	utcomes Students will dem	onstrate an understanding of the causes and consequences of imperfectly
		flexible prices, an stability.	nd how these imperfections affect market equilibrium and economic
	CO2 Students will be able to apply New Classical economic models to analyze how rational expectations and market-clearing mechanisms influence macroeconomic variables.		
	CO3	Students will gain and other market f	insights into New Keynesian models; particularly how price rigidities frictions impact economic performance and policy effectiveness.
	CO4	Students will be all their intended and	ble to critically assess various macroeconomic policies, understanding unintended effects on the economy.
9	(This Course is also applicable to the students of the Institute of Distance & Open Learning (IDOL) of the University of Mumbai)		

# Name of the Course: MACRO ECONOMICS-II

Semester-III	Credits: 4
Module 1: Imperfectly flexible prices:	(15 Hours)
Price-setting under imperfect competition Menu costs, real rigidity and neutrality Quadratic price adjustments	
Module 2: New Classical Economics:	(15 Hours)
The DSGE model Wealth Effects and the Government Budget Constraint; money/bond finance The government budget deficit; Ricardian Equivalence	
Module 3: New Keynesian Economics:	(15 Hours)
Disequilibrium, multiple equilibria, hysteresis Reconstructing the Keynesian multiplier The NK model of inflation	
Module 4: Macroeconomic Policy	(15 Hours)
Rules versus Discretion, Credibility & Reputation, Dynamic Inconsistency Banks, Financial Intermediaries and Unconventional Monetary Policy Inflation Targeting and Exchange Rates	
References:	
Essential Readings	
1. Heijdra, B.J. and F. Ploeg, Foundations of Modern Macroeconomics, Oxfo Oxford, 2002	rd University Press
<ol> <li>Romer, D., Advanced Macroeconomics, McGraw-Hill, Fourth Edition, 2012</li> <li>Wickens, M., Macroeconomic Theory and the Dynamic General Equilibrium A University Press, 2011</li> </ol>	Approach, Princeton

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# Name of the Course: GROWTH AND DEVELOPMENT ECONOMICS

# Semester-III

Sr.	Heading	Particulars		
No. 1	Description of the Course:	The objective of the course is to familiarise students with current		
		academic methodologies that address the complexity of developing		
		nations. In order to achieve this, the syllabus includes alternate		
		viewpoints that demand careful consideration along with some of the key		
		economic concepts in development thought. It also expands upon and		
		covered in previous core courses		
2	Vertical:	Mandatory Major Course		
3	Туре:	Theory		
4	Credit:	4 Credits		
5	Hours Allotted:	60 Hours		
6	Marks Allotted:	100 Marks		
7	Course Objectives:			
	• To give students an in	n-depth understanding of the many theories and metrics related to		
	To fomiliariae studen	to with contemporary theories of income distribution and economic		
	• 10 familiarise studen	has is an how these ideas affect development and policy		
	To give students the	masts on now mese ideas affect development and poncy.		
	• To give students the	ndpoint, taking into account the functions that institutions, businesses		
	and families play in t	a microeconomic standpoint, taking into account the functions that institutions, businesses, and families play in the process		
	• To strengthen the stu	To strengthen the students' understanding of the relationship between macroeconomic		
	policies and development results and their capacity to assess development challenges from a			
	macroeconomic stan	dpoint.		
8	Course Outcomes			
	CO1 Student will exhi applications of each	bit a thorough comprehension of the numerous theories, metrics, and conomic growth and development in practical settings.		
	CO2 By critically assess students will be and policies.	essing modern theories of economic growth and income distribution, equipped to apply these ideas to the analysis of development strategies		
	CO3 The ability to util comprehend the shown by the stu	ise microeconomic techniques to analyse development challenges and function of institutions and individual actors in the process will be dents.		
	CO4 The ability to do how macroecono policy suggestion	macroeconomic assessments of development-related issues, evaluate omic policies affect development results, and provide well-informed as will be possessed by the students.		
9	(This Course is also applic (IDOL) of the University o	able to the students of the Institute of Distance & Open Learning f Mumbai)		

# Name of the Course: **GROWTH AND DEVELOPMENT ECONOMICS**

#### Semester-III

#### Module 1: Concepts and Measures of Growth and Development:

Developments in economic thought – History, expectations, and development - Economic growth and structural change - Capabilities, entitlements, and deprivation - Inequality and growth - Measurement of Inequality and poverty- Measurement of development - HDI, GDI, etc.- Role of market and state

#### Module 2: Modern Theories of Growth and Distribution: (15 Hours)

Harrod-Domar Model of growth- Solow model of growth- Approaches to technical change -Convergence - Endogenous growth models of Romer and Lucas-Human capital

#### Module 3: Microeconomics of Development:

Segmentation of rural land, labor, capital, and credit markets -microfinance- Market inter-linkages land markets-labor markets and households-Credit market-microfinance- The household model of fertility decisions- Institutions and development

#### Module 4: Macroeconomics of Development:

Environment and development- Development and the constraint of natural resources -Environmental problems in Economic Development-Environment and Sustainable Development-Trade and Development – Trade and foreign exchange – Role of international financial and trade institutions – Structural adjustment and stabilization.

#### **References:**

#### **Essential Readings**

- 1. Basu, K., Analytical Development Economics, OUP, New Delhi, 1998
- 2. Ray, D., Development Economics, OUP, New Delhi, 2004

#### **Additional Readings**

- 1. Agénor, P. and P.J. Montiel, Development Macroeconomics, Princeton University Press, 1999
- 2. Bardhan, P. and C. Udry, Development Microeconomics, OUP, Oxford, 1999
- 3. Behrman, J.R. and T.N. Srinivasan, Handbook of Development Economics, Elsevier, 1995
- 4. Foley, D.K. and T.R. Michl, Growth and Distribution, Harvard University Press, 1999
- 5. Hayami, Y. Development Economics: From the Poverty to the Wealth of Nations, OUP, 2001
- 6. Human Development Reports (Several Years)
- 7. Sen, A. Commodities and Capabilities, OUP, New Delhi, 1999

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#### 13

(15 Hours)

# (15 Hours)

(15 Hours)

#### Name of the Course: MONEY AND BANKING- I

Semester-III Credits: 02 Sr. Heading **Particulars** No. 1 **Description of the** The intricacies of financial institutions' operations and monetary pressures **Course:** are thoroughly examined in this course. Through market dynamics and institutional frameworks, students will explore how these institutions impact economies, covering topics such as the evolution of money and the functions of central and commercial banks. Learn about the theories that support banking practices, the reforms in the banking sector, and comparative assessments of various banking systems throughout the world. These insights will help students better comprehend and negotiate the intricacies of today's financial conditions. 2 Vertical: Mandatory Major Course 3 Type: Theory 2 Credits Credit: 4 30 Hours 5 **Hours Allotted:** 50 Marks Marks Allotted: 6 7 **Course Objectives:** The objectives of the paper are to provide an understanding on operation of monetary forces, evolution of money, developments of central bank and commercial banks, development banking and banking sector reforms. The course objectives of the paper include; to make the learners understand the working of monetary forces, to orient the learners about Money and Banking, to help the learners in realizing operating of monetary forces through multitude of channels - Market, Non-market Institutional etc. To make understand the students about an evolution of money, developments of commercial banks, central banks, theory relating to banking and banking practices in India and other countries. 8 **Course Outcomes** COs After completing the course, students will able to: **CO1** The learners will get an information and understanding about banking system, theories of banks and non-banks, developments of central bank and commercial banks, development banking, reforms in banking sector and Basel norms. **CO2** The learners will learn in detail about the operating of monetary forces through multitude of channels - market, non-market, institutional etc. **CO3** The learners will be able to understand an evolution of money, developments of commercial banks, central banks, theory relating to banking and banking practices in India and other countries. 9 (This Course is also applicable to the students of the Institute of Distance & Open Learning (IDOL) of the University of Mumbai)

#### Name of the Course MONEY AND BANKING- I

#### Semester-III

#### **Module 1: Introduction to Money**

Money: Meaning, functions, and Significance of Money, Monetary Standards, the 'H' Theory of Money Supply. Modern measures of money supply; money multiplier process, determinants of money multiplier. System of note issues in India. Demand for money: Keynes Theory, Friedman's Theory: Monetary Policy - Meaning, Objectives, and Instruments.

#### Module 2: Banking System and Central Banks

Banking in United Kingdom: Origin, Banking System and Structure, Management and Functions of Bank of England. Banking in United States of America: Introduction, Commercial Banking in USA, Federal Reserve System, Non-Bank Financial Institutions (NBFIs) in India. Functions of Central Bank, Role of Central Banks in Developing Countries: Regulatory and Promotional Role.

#### **References:**

1. Hajela, T.N., (2009) Money and Banking, Ane Books Pvt Ltd., New Delhi.

2. Sundharam KPM, Banking: Theory, Law and Practice, Sultan Chand and Sons, New Delhi (recent edition)

3. M.R. Baye, D.W. Jansen (1996), Money, Banking and Financial Markets, AITBS (Indian ed.)

4. K.C. Sekhar: Banking – Theory and Practice, Vikas Publishing House, New Delhi (recent edition).

5. S.B. Gupta, Monetary Economics, S. Chand Publications, New Delhi.

6. M.L. Seth, Monetary Economics, Vikas Publications, New Delhi

7. R.R. Paul, Money, Banking & International Trade, Kalyani Publications, Ludhiana

8. N. Jadhav, (2006). Monetary Policy, Financial Stability and Central Banking in India. Macmillan

9. L M Bhole and Jitendra Mahakud, Financial Institutions and Markets, Tata McGraw Hill, 2009.

10. F S Mishkin, The Economics of Money, Banking, and Financial Markets, Prentice Hall, 2007.

11. S B Gupta, Monetary Economics, S Chand Limited, 1988.

12. Economic Survey, Ministry of Finance, Government of India.

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# (Lectures 15)

Credits: 02

# (Lectures 15)

### Name of the Course: DEMOGRAPHY: THEORY & POLICY

# Semester-III

Sr.	Heading		Particulars	
No.				
1	Description of the Course:		Demography's foundational theories and real-world applications are examined in this course. Students will learn to analyse demographic data, comprehend population trends, and assess policy actions as they study population dynamics, fertility, mortality, migration patterns, and their effects on economic and social development. Learn how global population shifts impact economies, cultures, and public policy.	
2	Vertical:		Electives Course	
3	Type:		Theory	
4	Credit:		4 Credits	
5	Hours Allo	tted:	60 Hours	
6	Marks All	lotted:	100 Marks	
8	This paper po between po demographi	<sup>•</sup> provides students with an understanding of demographic processes as well as the linkages opulation and economic development. The paper aims to familiarize students with the major hic events.		
	COs	Aft	er completing the course, students will able to:	
-	CO1	The learners would be able to get knowledge on the interrelationship between population and economic development.		
	CO2	The learners would enhance their understanding of fertility, mortality, and migration.		
	CO3	The learners would be able to Gain a sound command over the basic tenets of demography as well as key demographic issues and illustrations in the context of a large and diverse country like India.		
-	CO4	The learners would be able to explore various aspects of the population policy and study its impact on socio-economic issues.		
9	(This Cour (IDOL) of	se is also applicable to the University of Mur	o the students of the Institute of Distance & Open Learning nbai)	

#### Name of the Course: DEMOGRAPHY: THEORY & POLICY

#### Semester-III

#### Module 1: Demography and Economic Development

Demography: Definition, Concepts and Scope. Components of population change. Population Science and Demography, Population-Environment and Development, Implications of Population, Sources of Demographic Data, Malthusian Theory of Population, and Theory of demographic transition.

#### Module 2: Nuptiality and Fertility

Introduction, Concepts, Sources, and Quality of Nuptiality Data. Measures and Indices of Nuptiality: Crude and Specific Rates; Standardization of Marriage Rates. Analysis of Marital Status Data, Singulate Mean Age at Marriage, Concepts and Measurements of Cohort and Period Fertility, Socio-economic determinants of proximate variables, indirect estimation of Fertility

#### **Module 3: Mortality**

Concepts and Analysis of Morbidity, Measurements of Mortality, Infant and Child mortality rates. Significance of the morbidity study; sources of morbidity data; concepts and definitions of health and morbidity. Significance of the study of Mortality; various sources of mortality data and its quality with special reference to the developing countries. Standardization of Mortality Rates, Life Table: Concepts, Types, Uses. Determinants of Mortality.

#### **Module 4: Migration and Population Projections**

Concepts, Patterns and Measures of Migration, Migration Theories and Todaro's Model. Consequences of migration and issues related to migration. Internal and International Migration,

Spatial Distribution and Urbanization, Importance of Population Projection. Consequences of internal migration.

#### **References:**

1. Bhende AA and T. Kantikar, Principles of Population Studies, Himalaya publishers, Mumbai- 2000.

2. Bhatt M. (2002): On the trial of Missing Indian Females, Economic and Political Weekly, 37(51) (52): 5105-518, 5244-5263. 46

3. Bogau DJ, EE, Arriagas, Douglas L. Anderson, Reading in Population Studies and Methodology, published for United Nations Population Fund by Social Development Center, Chicago,Illinois, 1993.

4. Coale A.J., 1971, Age Patterns of Marriage, Population Studies, 25 (2), PP 193-214.

5. Cahuc Pierre and Andre Zylberberg, Labor Economics, Massachusetts Institute of Technology, 2004

6. Uchikawa Shuji (eds.) Labour Market and Institution in India 1990s and Beyond, Manohar Publishers, New Delhi, 2003.

7. Bhende A.A. and Tara Kanitkar (2019)- 'Principles of Population Studies' - Himalaya Publishing House, Bombay

8. J.N. Desai M.L. Jhingan, B.K. Bhatt (2016), 'Demography', Vrinda Publications (P) Ltd.

9. Isher Judge Ahluwalia, Ravi Kanbur, P.K. Mohanty, (2014) 'Urbanisation in India: Challenges, Opportunities and the Way Forward'.

10. P. K. Majumdar(2013), 'India's Demography: Changing Demographic Scenario in India', Rawat Publications.

11. P.K Majumdar (2010), 'Fundamentals of Demography', Rawat Publications.

# Credits: 04

(Lectures 15)

(Lectures 15)

# (Lectures 15)

# (Lectures 15)

#### 17

#### Name of the Course: STATISTICAL METHODS IN ECONOMICS

S	emester-III	Credits: 4		
Sr.	Headir	ng Particulars		
No.				
1	Description of Course:	<b>of the</b> The fundamental statistical methods for analysing economic data are taught in this course. The course will cover descriptive statistics for data summarization, time series analysis for analysing economic trends over time, index number construction for measuring economic changes, and correlation and regression analysis for understanding links between economic variables. Students will acquire the abilities necessary to assess and interpret economic data in a rigorous and efficient manner by becoming proficient in these techniques.		
2	Vertical:	Electives Course		
3	Туре:	Theory		
4	Credit:	4 Credits		
5	Hours Allotte	ed: 60 Hours		
6	Marks Allot	ted: 100 Marks		
2	<ul> <li>The aim is to equip students with an extensive command of descriptive statistical techniques, so they can proficiently summarise and analyse economic data.</li> <li>To give students the know-how and abilities to use correlation and regression analysis to examine the links between economic variables.</li> <li>To familiarise students with index number construction ideas, techniques, and applications in economic analysis.</li> <li>To strengthen students' comprehension of the fundamental techniques and uses of time series analysis in economics, as well as their capacity to evaluate economic data throughout time.</li> </ul>			
8	Course Outcon	mes		
	COs	After completing the course, students will able to:		
	CO1	Students will demonstrate the ability to use descriptive statistical methods to organize, summarize, and interpret economic data.		
	CO2	Students will be able to analyze and interpret the relationships between economic variables using correlation and regression techniques, and apply these methods to real-world economic data.		
	CO3	Students will show proficiency in constructing and interpreting index numbers, and understanding their applications in tracking economic performance and price levels.		
	CO4	Students will be capable of conducting time series analysis on economic data, understanding trends, seasonal variations, and cyclical patterns, and applying these insights to economic forecasting and policy analysis.		
9	(This Course (IDOL) of th	e is also applicable to the students of the Institute of Distance & Open Learning e University of Mumbai)		

## Name of the Course: STATISTICAL METHODS IN ECONOMICS

#### Semester-III

#### Credits: 4

#### Module 1: Descriptive Statistics

Measures of central tendency: Computation of Mean, Median, Mode, Harmonic Mean and Geometric Mean in discrete and continuous series, Measures of dispersion: Absolute and relative measures of dispersion, Properties of a good measure of dispersion, Quartile Deviation, Mean Deviation, Standard Deviation and coefficient of quartile and mean deviations, coefficient of variation, combined mean and standard deviation.

#### Module 2: Correlation and Regression

Correlation: concept of simple, partial and multiple Correlation, Scatter diagram, Karl Pearson"s coefficient of correlation and Spearman's rank coefficient of correlation Coefficient of Correlation and coefficient of determination, Regression: Least square method of estimating regression, regression coefficients and standard error of estimate.

#### Module 3: Index Number

Meaning, weighted and unweighted index numbers, methods of constructing index numbers, Use of Index Numbers, Paasche and Laspeyers method, Fisher's idle index, Marshall-Edgeworth, kelly's index number, Base shifting, splicing and deflating index numbers.

#### Module 4: Time series analysis

Meaning, components of time series, Semi-moving averages, moving averages, fitting the linear trend by least square method, Exponential trend Analysis, Mean Square error and root mean square error, seasonal variation and forecasting based on time series data.

#### References

- Gupta, S.P. (2016) Statistical Methods, Sultan Chand & Sons, New Delhi 9.Handry, A. T. (1999), Operations Research, Prentice Hall of India, New Delhi.
- Gupta & Kapoor, Applied Statistics, Sultan Chand & Sons, New Delhi
- Gupta, S. C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons., New Delhi.
- Levin I Richard & Rubin S David, Statistics for Management, Pearson Prentice Hall, 2006
- Goon, A M., M.K.Gupta and B.S. Dasgu pta, Fundamentals of Statistics, Vol. I and Vol.II, The World Press Limited, Calcutta, 1996.
- Millar, J., Statistics for Advanced Level, Cambridge University Press, Cambridge, 1996.

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# Name of the Course ENVIRONMENTAL ECONOMICS

Credits: 4

#### Semester-III

Sr. **Particulars** Heading No. 1 **Description of the** The activity relationship between economic and environmental **Course:** sustainability is examined in this course. The application of microeconomic concepts to environmental problems such as public goods, externalities, and resource management will be covered for students. Learn how to critically analyse environmental policies and practices, giving students the skills to assess their efficacy and design in tackling difficult environmental issues. 2 Vertical: **Electives** Course 3 Type: Theory Credit: 4 Credits 4 **Hours Allotted:** 60 Hours 5 Marks Allotted: 6 100 Marks 7 **Course Objectives**: To provide students an in-depth knowledge of the trade-offs and opportunities for cooperation that exist between environmental sustainability and economic growth. To give students the knowledge and skills in microeconomics they need to analyse environmental problems, such as resource management, externalities, and public goods. To broaden students' understanding of additional analytical techniques and tools utilised in environmental economics, hence improving their capacity to tackle complex environmental issues. To strengthen students' capacity to assess environmental practices and policies critically while comprehending their efficacy, implementation, and design. 8 Course Outcomes COs After completing the course, students will able to: **CO1** Students will demonstrate the ability to analyse the complex relationship between economic growth and environmental sustainability, identifying potential conflicts and opportunities for synergy. **CO2** Students will be able to apply microeconomic principles to analyze environmental problems, understand the roles of externalities, public goods, and market failures. **CO3** Students will show proficiency in using supplementary analytical tools and methods to address environmental issues, enhancing their problem-solving and decision-making capabilities. **CO4** Students will be able to analyze environmental practices and policies critically, determine their efficacy, and suggest changes based on empirical data and economic theories. 9 (This Course is also applicable to the students of the Institute of Distance & Open Learning (IDOL) of the University of Mumbai)

# Name of the Course ENVIRONMENTAL ECONOMICS

#### Semester-III

#### Module 1: Economic Growth and the Environment:

Economic Growth and Environment, Limits to Growth and Sustainable Development, Environmental Kuznets Curve- Environment as an economic and social good/asset, Natural Resources (Exhaustible, renewable, common property resources) - Accounting and Natural Resource Management- Green Accounting

### Module 2: Micro foundations of Environmental Economics:

Types of goods and services - Public, private, and common pool resources, externalities and market failure, Social Cost- Benefit- Analysis, Pollution as a Public Bad? The equi-marginal principle-Economic efficiency versus equity, Damage functions Mitigation and abatement costs, Role of Institutions in environmental protection, Coase Theorem

Module 3: Supplementary Analytical Tools and Environmental Issues: (15 Lectures)

Valuation of Natural Resources: Direct and Indirect Methods of Environmental impact assessment, Life Cycle Analysis, Pollution- Air, Water and Noise; Regional, National, and Supranational dimensions of environmental degradation, Ozone Layer Depletion, Green greenhouse gas Emissions, Global Warming, and Climate Change

#### Module 4: Environmental Policy and Practices:

Few approaches to environmental policy: Command and control - Environmental Standards, Technology Mandates; Market-based instruments - Taxes, subsidies, liability instruments tradable permits; Rehabilitation and Resettlement Policy- Kyoto Protocol; Rio debate- Relevant Case Studies and Carbon Trading

#### **Reference Books -**

- 1. Dixon, J. A., and M. M. Hufschmidt, (ed.) Economic valuation techniques for the environment: A Case Study Workbook. Baltimore: Johns Hopkins University, 1986.
- 2. Field, B.C., Environmental Economics- An Introduction, McGraw-Hill International Edition, Singapore, 1997
- 3. Hodge, I. Environmental Economics, Mac Millan Press Ltd., London-1995.
- 4. Jeroen C.J.M. van den Bergh, Handbook of Environmental and Resource Economics, Edward Elgar publishing, 2002.
- 5. Jinhua, Z. and T. Fisher, Notes on Ir reversibility, Sustainability and the Limits to Growth, <u>http://econpapers.repec.org/paper/isugenres/default22.htm</u>.
- 6. Kolstad, C., Environmental Economics, Oxford University Press, USA, 2006.
- 7. Sankar, U., Policy Instruments for Achieving Low Carbon and High Economic Growth in India (Monograph), National Institute of Public Finance and Policy, New Delhi, 2009.

United Nations Statistical Division: System of Environmental-EconomicAccounts (SEEA)http://unstats.un.org/unsd/envaccounting/seearevAccounts (SEEA)

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# 21

#### Credits: 4

(15 Lectures)

#### (15 Lectures)

# (15 Lectures)

#### Name of the Course ECONOMICS OF AGRICULTURAL PRODUCTION & RURAL MARKETS Semester-III Credits:4

Sr.		Heading	Particulars		
NO.	Degen	tion of the Courses			
1	Description of the Course:		The aim of this course is to help students gain greater understanding of		
			the dynamics of agricultural output and government interventions. I		
			covers cropping patterns, different farming methods, and factors		
			impacting agricultural productivity. There's a focus on smart farming		
			techniques, technology innovations, and creative agricultura		
			practices. Students will also investigate the roles, difficulties, and		
			incorporation of digital platforms in rural marketplaces. The course		
			also looks at agricultural leasing methods and rural loan markets, as		
			well as how they affect rural development and agricultural		
		_	sustainability.		
2	Vertica	al:	Electives Course		
3	Type:		Theory		
4	Credit	:	4 Credits		
5	Hours Allotted:     60 Hours		60 Hours		
6	Marks Allotted:     100 Marks		100 Marks		
7	Course Objectives:				
	This course aims to enhance learners' understanding of agricultural production and relate		earners' understanding of agricultural production and related initiatives		
taken by the government. Learners would also understand factors a		the government. Le	arners would also understand factors affecting agricultural production.		
	farming	systems, and crop	ping patterns. Innovative practices used in agriculture, improved		
	technolo	gy, and smart farmin	ng. Learners would understand rural markets, their role and problems		
	related, o	digital platforms use	d in rural markets, rural credit markets, and agricultural leasing.		
8	Course	Outcomes			
	CO1	The learner would	be able to understand the concepts related to agricultural production,		
		its systems, soil ma	anagement, and cropping patterns in India		
	CO2	The learner would	d enhance their understanding knowing the technology used and		
		innovation used in	Indian agriculture.		
	CO3	The learner would	be able to understand the role of Rural markets and the digital		
	platforms used in the growth of rural markets in India.				
	CO4	The learners would	vould be able to understand the significance of agriculture rural market and		
		lease markets in In	ndia.		
9	(This C	ourse is also applicate	able to the students of the Institute of Distance & Open Learning		
	(IDOL)	(IDOL) of the University of Mumbai)			

#### Name of the Course ECONOMICS OF AGRICULTURAL PRODUCTION & RURAL MARKETS

#### Semester-III Credits:4 **Module -1** Agriculture Production (15 Lectures) Agricultural production methods in India. Factors affecting Agricultural Production Cropping patterns in India Need and Significance of Soil Management; Soil Fertility Improvement Techniques. **Module-2** Innovative Practices in Agricultural Production (15 Lectures) Agriculture technology and its overview in India Importance of technology in improving agricultural productivity and sustainability, Trends and drivers of innovation in agriculture. Smart farming systems, Remote sensing used in agriculture Climate-smart agriculture, automated harvesting systems in India **Module-3 Rural Agricultural Markets** (15 Lectures) Rural Markets: Scope and Importance in the Indian Economy • Problems of Rural Markets. • Role of intermediaries and supply chain in rural markets. • Use of digital platforms for the rural markets. APEDA, AGMARKNET. Module -4 Agricultural Credit Market (15 Lectures) Rural Credit Market: Sources of Rural Credit: Formal and Informal, Theories of Informal Credit Market, Micro Finance, RRBs, NABARD, Policy Initiatives in Agricultural Credit: Kisan Credit Card, PM-Fasal Bima Yojana (PMFBY), Crop Loans. References 1. David L. Debertin (2012) "Agricultural Production Economics", Macmillan Diana Mishra and S. P. Sharma (2015)' "Rural Markets and Regional Development: The Dynamics of 2. Marketplaces in Rural Areas", Springer

- 3. Prabhu Pingali and Gershon Feder (2017), "Agriculture and Rural Development in a Globalizing World: Challenges and Opportunities", Routledge
- 4. C. S. G. Krishnamacharyulu and Lalitha Ramakrishnan (2010), "Rural Marketing: Text and Cases", Pearson Education India
- 5. Ramesh Chand, Praduman Kumar, and Sant Kumar (2012), "Agricultural Growth in India: The Role of Technology, Incentives, and Institutions", Springer
- 6. M. Gopinath Reddy, K. Anil Kumar, and K. Srinivas Reddy (2015), "Agriculture, Rural Development, and Poverty in India", Academic Foundation
- 7. Katar Singh and Anil Shishodia (2016), "Rural Development: Principles, Policies, and Management" Sage publication
- 8. G. S. Bhalla and Gurmail Singh (2012), "Agricultural Production and Indian Economy", Springer
- 9. S. S. Acharya and N. L. Agarwal (2011), "Agricultural Marketing in India", Oxford & IBH Publishing
- 10. Ashutosh Kumar Tripathi (2014), "Agricultural Prices and Production in Post-reform India", New Century Publications.

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Semester- IV

# Syllabus for Semester – IV

# Name of the Course AGRICULTURAL DEVELOPMENT & POLICY

#### Semester-IV

Sr.	Hea	ading	Particulars		
No.					
1	<b>Description of the Course:</b>		This course examines the history of agricultural development in India.		
			including land reforms, the effects of the green revolution, and		
			historical contributions. Students learn about climate-smart		
			technologies, organic farming, and the Sustainable Development		
			Goals. Along with these topics, it looks at WTO's role in agriculture,		
			Indian export policies, MSP difficulties, current schemes like PMFBY		
			and e-NAM, and the effects of the new agriculture policy.		
2	Vertica	վ։	Mandatory Major Course		
3	Type:		Theory		
4	Credit:		4 Credits		
5	Hours A	Allotted:	60 Hours		
6	Marks	Allotted:	100 Marks		
7	Course	e Objectives:			
	This cour	rse aims to enhance l	earners' understanding of agriculture development in India stating its		
	contribut	ion, land reforms, earl	ly green revolution, and use of digital platforms. They could understand		
	sustainab	ility in agriculture the	rough organic farming, SDGS goals, Agro-forestry, and climate-smart		
	technolog	gies. Leaners would un	nderstand the role of WTO and world banks in agriculture development.		
	global lea	aders and their agricul	lture policies, Indian export policies, etc. Learners would also be able		
	to unders	tand MSP issues, rece	ent schemes, e-NAM, PMFBY, and new agriculture policy.		
	Course (	Dutcomes			
	COs	After completing	the course, students will able to:		
	CO1	The learner would	be able to understand agricultural development in the light of various		
		reforms introduced	, the green revolution, and digital platforms.		
	CO2	The learner would	enhance their understanding of the government's initiatives for		
	agriculture sustainability.				
	<b>CO3</b> The learner could compare India's agriculture with nearby countries' production methods				
		and policies.			
	CO4	: The learners wo	ould be able to evaluate different government policies of the India		
		Government and th	e impact of land reforms and schemes.		
9	(This Co	ourse is also applicat	ole to the students of the Institute of Distance & Open Learning		
	(IDOL) o	of the University of <b>N</b>	Mumbai)		

# Name of the Course AGRICULTURAL DEVELOPMENT & POLICY

#### Semester-IV

#### Module –I Role of Agriculture and Global Theories of Agricultural Development (15 Lectures)

- Role of agriculture in a Developing Economy and a Developed economy.
- Theories of Agricultural Development (Lewis and Schultz)
- Digital facilities for agriculture development in India. e-Nam, DBT, India e-com platforms.

#### Module –II Agriculture Sustainability and Initiatives

- SDGs in Indian Agriculture, organic farming, agroforestry initiatives.
- Climate-smart agriculture initiatives adopted, Women participation in Agriculture, cooperative and corporate farming.

#### Module –III Global Agriculture Policies

- WTO and Indian Agriculture- positive and negative impact.
- Global leaders in Agriculture with special reference to China, Brazil, and Israel and their policies.
- Role of FAO and World Bank in shaping agricultural policies.

#### Module -IV Agriculture Policies and Evaluation in India

- Evaluation of NAP-2000 and NPF-2007
- Evaluation of PM Fasal Bima Yojana,
- Impact of Land Reforms on Marginal Farmers in India.
- Development of rural markets.

#### References

- R. Radhakrishna and S. Gulati (2006) "Agricultural Policy in India: Issues and Challenges" Oxford University Press
- G. S. Bhalla (2008), "Agricultural Policy Reforms and Rural Development in India" Oxford University Press
- S. S. Acharya and S. Mahendra Dev (2011)."Agricultural Policy in India: Institutional and Implementation Aspects", Oxford University Press.
- S. Mahendra Dev (2019, "Agricultural Policy in India: An Overview" Oxford University Press)
- A. K. Dhaka and R. K. Sehrawat (2018) "Sustainable Agriculture in India: An Overview" Springer
- P. S. Minhas and B. S. Sidhu (2014) "Agricultural Sustainability: Progress and Prospects in Crop Research" CRC Press.
- R. K. Pandey, R. K. Maheshwari, and R. Kumar (2013), "Sustainable Agriculture in India: Challenges and Opportunities" Springer
- K. C. Roy and R. K. Maikhuri (2008)"Agricultural Sustainability in India: Constraints and Opportunities", Springer/
- P.K. Mishra and S.S. Raju (2013), Indian Agriculture: Performance, Growth, and Challenges" Springer
- Ramesh Chand (2017) "Indian Agriculture: Four Decades of Development" Academic Foundation.

# (15Lectures)

(15Lectures)

(15Lectures)

- Ashok Gulati and P.K. Joshi (2014) "Indian Agriculture in the New Millennium", Academic Foundation
- Ramesh Chand (2016)"Agricultural Development in India: The Role of Policy, Institutions, and Technology" Academic Foundation.
- "Agricultural Economics and Agribusiness" by G.S. Bhalla (2014, Vikas Publishing House Pvt Ltd)
- S.K. Ray (2013)"Indian Agricultural Economy: Challenges and Prospects", PHI Learning Private Limited
- R.P. Misra (2012) "Agricultural Development in India: A Regional Analysis", PHI Learning Private Limited)
- Alakh N. Sharma and Ashok K. Singh (2010), "Agricultural Development and Rural Poverty Reduction in India: The Role of Policies and Institutions" Academic Foundation.

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# Name of the Course INDUSTRIAL RELATIONS IN INDIA

#### Semester-IV

Sr.		Heading Particulars		
No.				
1	Description of the Course:		This course discusses the evolution, parties involved, and legal framework of industrial relations in India. Topics covered include the history, functions, and impact of trade unions; the role of labour laws and state interventions; and the resolution of workplace conflicts. Learn about modern topics such as collective bargaining, workers' rights, and	
2	Vertice	•	how labour relations are evolving in the context of globalisation.	
4	vertical		Walidatory Wajor Course	
3	Туре:		Theory	
4	Credit:		4 Credits	
5	Hours A	llotted:	60 Hours	
6	Marks A	<b>As Allotted</b> : 100 Marks		
7	Course	se Objectives:		
	This cours	se aims to provide a	a basic conceptual understanding of the economics of trade unions and Empirical relevance of theories with suitable examples from a practical	
	industrial	relations in India. E		
	industrial	relations viewpoint	will strengthen a student's understanding of the topic along with their	
	limitations	8.		
8	Course O	utcomes		
	COs	After completing	the course, students will able to:	
	CO1	The learners would	d be able to get the knowledge of the various approaches to industrial	
		relations in the wor	rld.	
	CO2	The learners would	l enhance their understanding on evolution and role of Trade unions.	
	<b>CO3</b> The learners would be able to identify the operational functioning of trade unior		be able to identify the operational functioning of trade unions and its	
	impact on industrial relations with specific reference to the India.			
	CO4	The learners would be able to explore various aspects of the causes and consequences		
		trends in industrial	strial disputes and industrial relation in Gig economy.	
9	(This Co	s Course is also applicable to the students of the Institute of Distance & Open Learning		
	(IDOL) o	of the University of Mumbai)		

#### Name of the Course INDUSTRIAL RELATIONS IN INDIA

Semester-IV		(	Credits: 4	
Module 1: Introduction to Indus	trial Relations	(15	Lectures )	
Concept of Industry and Industrial and Scope of Industrial Relations. India. Approaches to Industrial Re	Relations. Development of Industry Parties of Industrial Relations. Evo lations. Legal Frame Work of Industr	and Industria lution of Indu rial Relations	ll Relations. Nature ustrial Relations in s.	
Module 2: Political Economy of 7	Frade Unions	(15	Lectures)	
Evolution of Trade Unions in India Unions. Problems faced by Trade and wages, Employment Security globalization.	. Definitions of Trade unions. Charac unions and future of trade unions. Ir y and Efficiency. New Role of Tr	cteristics and npact of unio rade Unions	Functions of Trade ons on productivity in the context of	
Module 3: Industrial Disputes		(15	Lectures)	
Concept and Nature of industrial d turnover. Causes and consequences Collective Bargaining: meaning, na	lisputes. Forms of conflict, strikes, lo and trends in industrial disputes, Indu ature and methods. Tripartite approace	ockouts, abse ustrial Relation ch in industri	enteeism, employee on in Gig economy. al relations	
Module 4: Role of the State in In	dustrial Relations in India	(15	Lectures)	
Labour Legislations affecting indus Act – Employees provident Fund to settle industrial disputes. Worke other retrenchment measures.	strial relations: Importance provision Act – Maternity Benefit Act. Statuto ers Participation in Management, Vo	s of Employe ory and Non-5 luntary Retir	ees' State Insurance Statutory measures ement Scheme and	
References:				
<ol> <li>Amin, Ash (Ed.), Post-Fordism-A</li> <li>Government of India, Ministry Commission on Labour, 2002.</li> </ol>	A Reader, Blackwell, Oxford, 1994. <sup>7</sup> of Human Resource Development	, Report of S	Second National	
<ol> <li>Hicks J.R., The Theory of Wages, Clarendon Press, Oxford, 1932.</li> <li>Monappa, Arun, Industrial Relations, Tata McGraw Hill, New Delhi, 2005.</li> <li>Pencavel, John, Labour Markets under Trade Unionism: Employment, Wages and Hours, Basil Blackwell, Cambridge, Massachusetts, 1991</li> </ol>				
6. Roy, J. Adams (eds.), Comparati	ve Industrial Relations, Harper Colli	ns Academic	e, London,1991.	

7. Mamoria C.B. and Mamoria. Satish 'Dynamics of Industrial Relations', Himalaya Publishing House, New Delhi, 1998.

8. Dwivedi. R.S. 'Human Relations & Organisational Behaviour', Macmillan India Ltd., New Delhi,

1997.

9. Ratna Sen, 'Industrial Relations in India', Shifting Paradigms, Macmillan India Ltd., New Delhi, 2003.

- 10. Srivastava, 'Industrial Relations and Labour laws', Vikas, 4th edition, 2000.
- 11. C.S.Venkata Ratnam, 'Globalisation and Labour Management Relations', Response Books, 2001.
- 12. Sharma A M : Industrial Relations
- 13. Ahuja K K : Industrial Relations Theory and Practice
- 14. Jerome Joseph
- : Strategic Industrial Relations Management
- 15. Kapoor, N.D., Elements of Industrial Law, Sultan Chand, New Delhi, 2020
- 16. Garg, Ajay, Labour Laws one should know, Nabhi Publication, New Delhi, 2020

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# Name of the Course: MONEY AND BANKING -II

#### Semester-IV

Sr.	Heading	Particulars		
<u>No.</u> 1	Description of the Co	<b>urse:</b> This course looks at the origins of money, its development, and the functions of commercial and central banks. Students will study banking sector reforms, development banking, and the different ways that monetary policies are implemented. Learn about the principles and practices of banking in India and around the world, as well as the vital role these institutions play in determining financial stability and		
2	Vertical:	economic policy.       Mandatory Major Course		
3	Туре:	Theory		
4	Credit:	2 Credits		
5	Hours Allotted:	30 Hours		
6	Marks Allotted:	50 Marks		
	The objectives of the paper are to provide an understanding on operation of monetary forces, evolut of money, developments of central bank and commercial banks, development banking and bank sector reforms. The course objectives of the paper include; to make the learners understand working of monetary forces, to orient the learners about Money and Banking, to help the learners realizing operating of monetary forces through multitude of channels - Market, Non-mark Institutional etc. To make understand the students about an evolution of money, developments commercial banks, central banks, theory relating to banking and banking practices in India and oth countries			
8	Course Outcomes			
	COs     After con       CO1     The learner       of banks     development	After completing the course, students will able to:         The learners will get an information and understanding about banking system, theories of banks and non-banks, developments of central bank and commercial banks, development banking, reforms in banking sector and Basel norms.		
	CO2 The learn multitude	The learners will learn in detail about the operating of monetary forces through multitude of channels - market, non-market, institutional etc.		
	CO3 The learn commerci India and	ers will be able to understand an evolution of money, developments of al banks, central banks, theory relating to banking and banking practices in other countries.		
9	(This Course is also ap (IDOL) of the Universi	plicable to the students of the Institute of Distance & Open Learning ty of Mumbai)		

#### Name of the Course: MONEY AND BANKING -II

#### Semester-IV

#### Module 1: Development of Commercial Banks

Introduction of Commercial Banks, Structure of Commercial Banking System in India, Importance, Functions, Process of Credit Creation. Banking Sector Reforms since 1991. Narasimham Committee Reports: 1991 & 1998, Post Reform Scenario- Basel norms I, II and III. Monetary Policy - Methods and Recent Changes in India.

### Module 2: Development Banking and Financial markets(Lectures 15)

Introduction of Development Banking: Nature, Financial Appraisal, Liquidity Ratios, Capital Ratios-Technical and Economic Appraisal, Development Finance institutions: Role in economy. Money Market and Capital Market: nature, functions and instruments; Structure of Indian money and capital markets, Reforms in Money market and Capital market in India.

#### **References:**

1. Hajela, T.N., (2009) Money and Banking, Ane Books Pvt Ltd., New Delhi.

2. Sundharam KPM, Banking: Theory, Law and Practice, Sultan Chand and Sons, New Delhi (recent edition)

3. M.R. Baye, D.W. Jansen (1996), Money, Banking and Financial Markets, AITBS (Indian ed.)

4. K.C. Sekhar: Banking – Theory and Practice, Vikas Publishing House, New Delhi (recent edition).

5. S.B. Gupta, Monetary Economics, S. Chand Publications, New Delhi.

6. M.L. Seth, Monetary Economics, Vikas Publications, New Delhi

7. R.R. Paul, Money, Banking & International Trade, Kalyani Publications, Ludhiana

8. N. Jadhav, (2006). Monetary Policy, Financial Stability and Central Banking in India. Macmillan

9. L M Bhole and Jitendra Mahakud, Financial Institutions and Markets, Tata McGraw Hill, 2009.

10. F S Mishkin, The Economics of Money, Banking, and Financial Markets, Prentice Hall, 2007.

11. S B Gupta, Monetary Economics, S Chand Limited, 1988.

12. Economic Survey, Ministry of Finance, Government of India.

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# Credits: 2

(Lectures 15)

#### Name of the Course: REGIONAL ECONOMIC THEORY

#### Semester-IV Credits: 02 Particulars Sr. Heading No. 1 **Description of the** The fundamentals of regional economics are examined in this course, which Course: covers spatial theories, notions of regions, and economic strategies for balanced development. Students will examine how regional imbalances are impacted by globalization and new economic strategies, with an emphasis on the difficulties and useful instruments in tackling regional economic dynamics. Vertical: 2 **Mandatory Major Course** 3 Type: Theory 4 Credit: 2 Credits 5 Hours Allotted: 30 Hours Marks Allotted: 50 Marks 6 7 **Course Objectives**: To introduce students to the fundamental concepts of regional economics, including the definition of a region, types of regions, and the importance of regionalization approaches. To familiarize students with spatial theories and their implications for regional economic • activities, including location determinants and concentration versus dispersal. **Course Outcomes** 8 COs After completing the course, students will able to: To familiarise students with the fundamental concepts of regional economics, such as the **CO1** significance of regionalization approaches and the definition and classification of various sorts of regions. To introduce students to spatial theories, including concentration vs dispersal and **CO2** location factors, and their consequences for regional economic activity. 9 (This Course is also applicable to the students of the Institute of Distance & Open Learning (IDOL) of the University of Mumbai)

#### Name of the Course: REGIONAL ECONOMIC THEORY

#### Semester-IV

#### Credits: 02

#### Module 1:

#### (15 Hours)

Overview of Regional Economics: Meaning of Regional Economics. Need for the study of Regional Economics, Definition of a region, Different types of regions, Differences between region and a nation; Importance of Regionalization – Regionalization Approaches – Indicators of Regional Development

#### Module 2:

#### (15 Hours)

Spatial Theories: Determinants of Regional Location, Theories of Location – Von Thunen, Weber, Losch on Location on Location – Concentration vs Dispersal of Economic Activities, Regional Social Accounting – Regional Growth Process – Regional Multiplies – Regional Input-Output Analysis – Regional Business Cycle – Convergence and Divergence – Techniques for Regional Economic Analysis

#### **References:**

- 1. Chand, M. and U.K. Puri, (2011), Regional Planning in India, Allied Publishers, New Delhi.
- 2. Dholakia, R.H, (1985) Regional Disparity in Economic Growth in India, Himalaya Publishing House, Bombay.
- 3. Glasson, J., (1974) An Introduction to Regional Planning, Concepts, Theory and Practice, Hutchiuson, London.
- 4. Richardson H.W, (1969) Elements of Regional Economics, Penguin Harmendsworth
- 5. Shrivastava O.S. (1992) Regional Economics: Theoretical issues, Anmol Publications, New Delhi

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#### Name of the Course THEORY OF MONETARY INSTITUTIONS

Semester-IV

Sr. No.	ŀ	leading	Particulars	
1	Description of the Course:		The course is 1. constructive, that is, will exploit the open foundations of the subject to work through alternative monetary arrangements using microeconomics, and 2. relevant, in that it connects with abiding discussions on the nature of money, the role of banks, the appraisal of central banks, a world central bank, and so on.	
2	Vertical:		Electives Course	
3	Type:		Theory	
4	Credit:		4 Credits	
5	Hours Alle	otted:	60 Hours	
6	Marks Al	lotted:	100 Marks	
8	<ul> <li>To investigate the goals, purposes, and workings of central banks.</li> <li>To evaluate how monetary institutions have changed historically and how they have adjuto shifting economic conditions</li> </ul>		als, purposes, and workings of central banks. letary institutions have changed historically and how they have adjusted conditions	
0	COs After completing the course students will able to:			
	CO1	After completing the course, students will able to: After completing the course, students will be able to describe the main theories of money, examine how they apply to various trading scenarios (both one- and multi- period) and assess how these theories affect growth and stability in the economy		
	CO2	Students will gain the capacity to evaluate banking arrangements critically, taking into account their effects on credit generation, financial intermediation, and overall economic stability.		
	C03	<b>CO3</b> By the end of the course, students will be able to analyse the instruments and strategies used by central banks, evaluate their role in the formulation and implementation of monetary policy, and determine how well they work to achieve macroeconomic goals.		
	CO4	CO4 Students will gain the ability to evaluate the difficulties that monetary institutions are currently confronting, including globalization, financial innovation, and regulatory reforms, and they will be able to provide well-informed policy proposals to deal with these problems.		
9	(This Cou (IDOL) of	rse is also applicate the University of	able to the students of the Institute of Distance & Open Learning f Mumbai)	

#### Name of the Course THEORY OF MONETARY INSTITUTIONS

#### Semester-IV

#### Module 1: One-period Trade:

Market mechanisms: The "bid-offer" market, many monies, gold, and paper money: The loan market, the money rate of interest, a fractional reserve system: modeling trust, Fiat money: modeling bankruptcy, Incomplete markets: commodity money and other structures, money and liquidity: the store of the value function

#### Module 2: Multiperiod Trade:

Commodity money and credit: "badly distributed "money and credit, fiat money and credit: strategic market games with/without lending, Transactions and the float: financing the float, capital stock, salvage values, Expectations: strategic market games with uncertainty, Money and Transactions Costs: endogenous money, the combinatorics of exchange, brokers and dealers: middlemen, clearinghouses, and setup costs

#### Module 3: Banking Arrangements:

An "ideal banking system": a modern loanable funds theory, the bank's portfolio problem equilibrium: from the corn economy to the monetary economy, towards a general equilibrium theory of credit Narrow Banking: "Deposit Creating Institutions", Free Banking, Universal Banking

#### Module 4: Central Banks:

Open-market operations: incentive-compatible contracts, The Lender of Last Resort function: moral hazard, Monetary policy with informal financial markets: dual economy dynamics, Monetary-Fiscal Coordination, Managing Aggregate Risk: systemic fragility and policy, A World Central Bank: The IMF?

#### **References:**

- 1. Shubik, Martin, The Theory of Money and Financial Institutions, volumes 1& 2, Cambridge: The MIT Press, 1999
- 2. Stiglitz, Joseph E. and Bruce E. Greenwald, Towards a New Paradigm in Monetary Economics, Cambridge: The Cambridge University Press, 2003

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# Credits: 4

#### (15 Hours)

# (15 Hours)

#### (15 Hours)

(15 Hours)

# Name of the Course Introduction to Econometrics

#### Semester-IV

Sr. No.		Heading	Particulars	
1	Descri	ption of the Course:	The basic principles of econometric data analysis methods are covered in	
		-	this course. Examine the ways in which econometric models and statistical	
			inference are supported by probability theory. Learn random variables,	
			probability distributions, and how econometric analysis uses them. Comprehend joint distributions, correlation, and covariance; these are essential for empirical research and rational economic decision-making.	
2	Vertical:		Electives Course	
3	Type:		Theory	
4	Credit	•	4 Credits	
5	Hours A	Allotted:	60 Hours	
6	Marks	Allotted:	100 Marks	
7	Course	e Objectives:		
	• (	Understand the func	amentals of econometric models, their uses, and their limits in the	
	8	analysis of economi	c data.	
	• (	Gain an understandi	ing of fundamental probability theory and how it relates to statistical ometric modelling.	
	i	nference and econo		
	Examine probability     econometric analys		y distributions, random variable characteristics, and how they relate to is.	
	• Understand the meaning of correlation, covariance, and joint distributions as well as h		ning of correlation, covariance, and joint distributions as well as how	
	t	they apply to econometric modelling and inference.		
8	Course (	Outcomes		
	Cos	After completin	ng the course, students will able to:	
	CO1	With real-world	economic data, students will be able to use a variety of econometric	
		models, assess h	ow appropriate they are, and successfully interpret the findings.	
	CO2	The ability to ap	ply basic probability ideas to econometric analysis, including	
	estimation and hypothesis testing, will be demonstrated by the students.		hypothesis testing, will be demonstrated by the students.	
	CO3	The ability to analyse random variables, comprehend their moments and distribution		
	and appreciate the implic		he implications for econometric modelling and statistical inference will	
	be demonstrated by the students.			
	CO4	<b>Students will be able to compute covariance and correlation</b> analyse jointly distributed		
		random variables, and apply these ideas to empirical research and multivariate		
		econometric models.		
0	(This C	ourse is also appli	cable to the students of the Institute of Distance & Onen Learning	
"	(IDOI)	of the University	of Mumbai)	
		of the Oniversity	VI 1/14/11//41/	

# Name of the Course Introduction to Econometrics

#### Semester-IV

#### Credits: 4

#### Module - I: Introducing Econometrics Modeling

What is the field of econometrics? Utilizing Econometrics: When and Why? A theoretical foundation and empirical modeling. Identification of research problems and sampling methods. The distinction between populations and samples and, between population parameters and sample statistics; Pictorial Methods in Descriptive Statistics

#### **Module 2: Elementary Probability**

Sample spaces and events; probability axioms and properties; counting techniques; conditional probability and Bayes' rule; independence.

#### **Module 3: Random Variable and Distributions**

Concept of a random variable: Discrete and continuous, Expected values of a random variable, Variance of a random variable Discrete random variables: Bernoulli, Binomial, Poisson, Continuous random variables: The normal distribution,

#### Module 4: Jointly Distributed Random Variables

Density and distribution functions for jointly distributed random variables; computing expected values of jointly distributed random variables; conditional distributions and expectations, covariance and correlation

#### References

- Jan Kmenta, *Elements of Econometrics*, McMillan Publishing, Second Edition, 1990
- Walter Enders, Applied Econometric Time Series, Wiley. Second Edition. 2003
- William E. Griffiths. R. Carter Hill, George G. Judge: Learning and Practicing Econometrics.
- 1993.
- Damodar Gujarati, Basic Econometrics, McGraw-Hill, Fourth Edition, 2002.
- Hatekar, N. R. (2010). *Principles of econometrics: An introduction (using R)*. SAGE Publications India.
- Nachane D.(2006) Econometrics: Theoretical Foundations and Empirical Perspectives Oxford University Press 25 September 2006

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# Name of the Course Gender Economics

#### Semester-IV

Sr.		Heading	Particulars		
No.					
1	Description of the Course:		This course explores theories and methodologies in gender economics.		
			tocusing on women's roles, challenges, and contributions in economic		
			development. Students will study empowerment programs across		
			political, social, and economic spheres, and analyze the dynamics and		
			disparities and strategies for fostering inclusive economic growth		
2	Vertical		Electives Course		
-	Type		Theory		
4	Credit		4 Credits		
5	Hours	Allotted:	60 Hours		
6	Marks	s Allotted:	100 Marks		
7	Course	Objectives:			
	• 7	To give a thorough ex	xplanation of the gender economics theories, methods, and guiding		
	1	principles.			
	• 7	To examine the contr	ibutions, difficulties, and possibilities that women face in the processes		
		of economic develop	ment.		
	• 7	To study programmes	s and tactics designed to advance women's empowerment in the		
	political, social, and economic arenas.				
	• ]	• Examine the dynamics of female entrepreneurship, taking into account the obstacles,			
	(	contributing variables, and financial effects of women-owned companies.			
8	Course Outcomes				
	COs	After completing t	the course, students will able to:		
	CO1	Students will acqui	re a thorough understanding of theories, empirical data, and economic		
		challenges that are	specific to gender, enabling them to critically assess gender inequities		
		and suggest remedi	es.		
	CO2	Students can dem	onstrate the understanding of women's contributions to economic		
		development, comp	brehend the obstacles they encounter, and assess inclusive development		
		programmes.			
	CO3	CO3 Students will be able to evaluate the success of programmes and laws designed to give			
		women more influence in the political, social, and economic spheres.			
	CO4	4 Students will comprehend the difficulties and possibilities faced by female entrepreneurs.			
		examine the elements that led to their success, and suggest laws to encourage the business			
		ventures of women	en.		
9	(This C	Course is also applic	able to the students of the Institute of Distance & Open Learning		
	(IDOL)	of the University of	f Mumbai)		

# Name of the Course Gender Economics

#### Semester-IV

# **Module 1- Introduction**

Meaning, Nature, Scope, and Importance of Gender study, Status of Women in Indian Society from early Vedic period to present. Gender Inequality- Types, Causes and Effects

## Module 2- Women and Development

Participation of women in the Indian Economy- Agriculture, Industry and Service sector. Female work participation in organized and Unorganized sectors, women in labour market- Discrepancy in work and wages, Concept of Gender Development Index (GDI) and Gender Gap Index (GGI), Gender issues and Sustainable Development Goals.

# Module 3- Women Empowerment

Women empowerment- Concept, need and challenges, Demographic Decentralization and Women empowerment in India, National policies for empowerment of women, Role of self-help groups (SHGs) and women empowerment. Welfare schemes for women empowerment- Beti Bachao Beti Padhao scheme, Atmanirbhar Yojana, Mudra Yojana, Startup India, and Make in India. (In context with women empowerment)

# Module 4 - Women Entrepreneurship

Women Entrepreneurship - Concept, Need and Importance, the role of Small Industries Development Bank of India (SIDBI), Indian Institute of Entrepreneurship (IIE), Role of women in Economic decision making and control, Gender Budgeting and National Commission for Women.

#### **References**:

VS Ganeshmurthy, Women in the Indian Economy, New century publication, English, INDIA
 Poonam S chouhan, Women and Development in India (2019), Arjun publication, INDIA 3. Kumar das, (2008), Gender Dynamics, Reference press publication, INDIA, 1ST EDITION
 Deepan das, Introduction To Women's Studies, concept publication company, INDIA (2019) 1ST EDITION 5. Nelasco, Dr. Shobhana, Status of Women in India, Deep and Deep Publication, New Delhi

6. Sinha A.K., New Dimension of Women Empowerment, Deep and Deep Publication, New Delhi
7. Singh, Dr. Gurucharan, Women Entrepreneurship, Shree Publishar and Distributors, New Delhi
8. Singh, Dr. R. V., Women Empowerment in India, Shree Publishar and Distributors, New Delhi
9. Joshi, Dr. Gopa, Gender Inequality in India, Directorate of Hindi Medium Implementation Delhi
University Publications, Delhi

Sahini, Dr. Bhavya Kumar, Women in the Economy, Shri Chandradhar Publications, Delhi
 Singh, Dr. Amita, Gender and Society, Delhi (2219) Vivek Publication Delhi, 5th Edition
 Verma Savaliya Bihari, Status of Rural Women, University Publication, Delhi 13. Books related to
 the subject published by Madhya Pradesh Hindi Granth Academy, Bhopal

# (15 Lectures)

(15 Lectures)

Credits: 4

# (15 Lectures)

#### (15 Lectures)

#### 40

# Name of the Course: BEHAVIORAL ECONOMICS

#### Semester-IV

Sr.	Heading	Particulars	
No.			
1	Description the Courses	This course explores how psychological factors influence econom decisions. Analyze biases affecting choices and their implications for pub policy. Apply Behavioral Economics principles to real-world scenari gaining insights into decision-making dynamics and strategies for addressi	nic olic los ng
		behavioral challenges in economics.	
2	Vertical:	Electives Course	
3	Туре:	Theory	
4	Credit:	4 Credits	
5	Hours Allotted:	60 Hours	
6	Marks Allotted:	100 Marks	
8	<ol> <li>Understanding the basic principles of Behavioural Economics.</li> <li>Analyze how individuals make decisions and the psychological biases that influence their choice</li> <li>Exploring the implications of Behavioural Economics for public policy and decision-making.</li> <li>Applying the principles of Behavioural Economics to real-world problems and decision-makin Scenarios</li> </ol>		
Ū	Cos After	completing the course, students will able to:	
	CO1 Develor individ	op a deeper understanding of the psychological factors that affect dual decision-making, including the various biases.	
	CO2 Identify and evaluate real-world examples of behavioural economic phenomena.		
	CO3 Analyze how behavioural economics can be applied to public policy, such as in the areas of healthcare, education, or environmental regulation.		
	CO4 Apply decision	lying the principles of Behavioural Economics to make better sions in personal and professional contexts	
9	(This Course is also appli of the University of Mum	cable to the students of the Institute of Distance & Open Learning (IDO) bai)	L)

#### Name of the Course: BEHAVIORAL ECONOMICS

#### Semester-IV

#### **Module-I Introduction to Behavioural Economics**

Introduction to Behavioral Economics: Traditional Economic Theory and Assumptions, Limits of Rationality, Bounded Rationality. Heuristics and bias: Representativeness, Biases resulting from representativeness, Confirmation bias, Anchoring, Availability, Affect, Overconfidence, Exponential growth bias, other biases.

#### Module-II Risk Preference and Time Preference

Introduction to Risk and Time Preferences. Choice with risk: Expected Utility, risk aversion, reference dependence and prospect theory, Insurance, Tax Evasion. Time Preference: hyperbolic discounting, loss aversion and sequences, Time and risk, environmental economics and intergenerational discount factor.

#### Module-III Behavioural insights for Public Policy

Role of government in shaping behaviour, Designing good institutions: the tragedy of the commons, matching markets, behavioural economics and institution design. Behavioural insights for public policy, nudge and behaviour change. Fairness and Distributional Effects, Ethical considerations in behavioural public policy.

#### Module-IV Behavioural Development Economics and Economics of Happiness (15 Hours)

Behavioural determinants of health and healthcare: Information asymmetry, Behavioural interventions for promoting healthy behaviours, Health and happiness, measuring the value of treatment, improving the remembered utility of treatment. Behavioural economics and education policy: The role of social norms in promoting education, Role of gender and economic outcomes, Happiness and utility: Remembered utility, Projection bias, present bias, pre-commitment.

#### **References:**

- 1. Cartwright, E. (2014): "Behavioral Economics", Routledge. Chapter 1, 3, 4, 10 & 11.
- 2. Tversky, A. and Kahneman, D. (1974) "Judgment Under Uncertainty: Heuristics and Biases", Science, 185(4): 1124–1131.
- 3. Matthew Rabin, Joel L. Schrag (1999) "First Impressions Matter: A Model of Confirmatory Bias", The Quarterly Journal of Economics, 114(1),37–82
- 4. Kahneman, D. and Tversky, A. (1979) "Prospect Theory: An Analysis of Decision Under Risk", Econometrica, 47(2): 263–291.
- 5. Ericson, Keith Marzilli, and David Laibson. 2019. "Intertemporal Choice." Handbook of Behavioral Economics Foundations and Applications 2. Elsevier.
- 6. Chetty, Raj. 2015. "Behavioral Economics and Public Policy: A Pragmatic Perspective." American Economic Review.
- 7. Thaler, Richard H. and Cass R. Sunstein. 2008. "Nudge: Improving decisions about health, wealth, and happiness." Yale University Press, New Haven, CT.
- 8. Niederle, Muriel. 2016. "8. Gender." Edited by John H. Kagel and Alvin E. Roth. The Handbook of Experimental Economics, Volume Two. Princeton University Press.

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# Credits: 4

(15 Hours)

(15 Hours)

#### (15 Hours)

# QUESTION PAPER PATTERN (External and Internal)

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 50 marks and the second component will be the Semester-wise End Examination component carrying 50 marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below: -

# For 4 Credit courses

(A)	External / Semester End Examination	Marks: 50	Time: 2 Hours
Q.1	Answer any 'One' of the following. A)		(Marks 10)
~ ~			
Q.2	Answer any 'One' of the following. A)		(Marks 10)
	B)		
Q.3	Answer any 'One' of the following.		(Marks 10)
	A)		
	B)		
Q.4	Answer any 'One' of the following.		(Marks 10)
	B)		
Q.5	Write Short Note (Any Two) One from each	module	(Marks 10)
	A)		
	B)		
	C)		
	D)		
	************	****	

#### **(B)** Continuous Internal Evaluation.

Marks: 50

Sr. No.	Particular	Marks
1.	Class Test	20
2.	Project & Presentations	20
3.	Participation in Departmental Activities / Field Visit Report / Group Discussion/ Active particpation	10

# For 2 Credit courses

(A)	External / Semester End Examination	Marks: 25	Time: 1 Hours
Q.1	Essay Type Questions (Attempt Any One A)	out of two Based on U	nit I). Marks 10
Q.2	B) Essay Type Questions (Attempt Any One	out of two Based on U	nit II). Marks 10
03	A) B) Short Notes/Problem (Attempt Any one of	ut of two Based on both	n units) Marks 05
Q.5	A) B)	at of two Dased on both	runns). Marks 05

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# **(B)** Continuous Internal Evaluation.

## Marks: 25

Sr. No.	Particular	Marks
1.	Class Test	10
2.	Project & Presentations	10
3.	Participation in Departmental Activities / Field Visit Report / Group Discussion / Active particpation	05

#### Letter Grades and Grade Points:

Semester GPA/ Programme	% of Marks	Alpha-Sign/ Letter Grade Result
CGPA Semester/		
Programme		
9.00 - 10.00	90.0 - 100	O (Outstanding)
8.00 - < 9.00	80.0 - < 90.0	A+ (Excellent)
7.00 - < 8.00	70.0 - < 80.0	A (Very Good)
6.00 - < 7.00	60.0 - < 70.0	B+ (Good)
5.50 - < 6.00	55.0 - < 60.0	B (Above
		Average)
5.00 - < 5.50	50.0 - < 55.0	C (Average)
4.00 - < 5.00	40.0 - < 50.0	P (Pass)
Below 4.00	Below 40.0	F (Fail)
Ab (Absent)	-	Absent

Sign of the BOS Chairman Name of the Chairman BOS in Sign of the Offg. Associate Dean Name of the Associate Dean Faculty of Sign of the Offg. Associate Dean Name of the Associate Dean Faculty of Sign of the Offg. Dean Name of the Dean Faculty of