SIES College of Arts, Science & Commerce(Autonomous)Sion (W), Mumbai – 400022

Faculty: Arts

Programme: BA

Subject: Economics

Academic Year: 2018-19

F.Y.B.A, S.Y.B.A & T.Y.B.A

Credit based Semester and Grading System syllabi approved by the Board of Studies in Economics to be brought into effect from June 2018

Board of Studies of the Department of Economics

Category	Name of the person in-charge	Designation
Chairperson	Dr. Manashree Kusnur	Head, Associate Professor, SIES College of Arts, Science & Commerce, Sion (w).
Faculty members of the department	Dr. Shruti R Panday	Assistant Professor, SIES College of Arts, Science & Commerce, Sion (w).
	Mr. Sampath.V.Sambasivan	Assistant Professor, SIES College of Arts, Science & Commerce, Sion (w).
Subject Experts from outside Mumbai University	i) Dr.Pushpa Trivedi	Professor, Department of Humanities and Social Sciences IIT Mumbai
	ii) Dr.G.Mythili	Professor, Indira Gandhi Institute of Development &Research, Mumbai.
Vice- Chancellor's Nominee	Dr.Mala Lalwani	Director, Mumbai School of Economics & Public Policy.
Co-opted Member	Dr. Devayani Ganpule	Associate Professor, Ramnarain Ruia College, Mumbai
Industry Representative	Dr.Shubhada Rao	Group President & Chief Economist, YES Bank Ltd., Mumbai.
Post-Graduate Meritorious Alumnus	Dr. Sandhya Krishnan	Research Scholar Mumbai School of Economics & Public Policy.

LIST OF MODERATORS

- 1. Dr. Grasciella Tavares, Associate Professor, Dept. of Economics, St. Andrews College, Mumbai
- 2. Dr. Mary Vimochana, Principal (I/c) & Head, Dept. of Economics, Ratnam College of Arts, Science& Commerce.
- 3. Dr. Devayani Ganpule, Associate Professor Dept. of Economics, Ramnarain Ruia College, Mumbai.
- 4. Dr. Arti Prasad, Associate Professor Dept. of Economics, SIWS College, Wadala, Mumbai.
- 5. Mrs. Saraswathy Swaminathan, Head, Dept. of Economics, SIES College of Commerce & Economics.
- 6. Ms. Varsha Utpat, Associate Professor Dept. of Economics, D G Ruparel College of Arts, Science & Commerce.
- 7. Dr. Suchitra Kumar, Associate Professor, Head, Dept. of Economics, G N Khalsa College, Mumbai
- 8. Ms. Subhangi Vartak, Associate Professor, Dept. of Economics, R J College of Arts, Science& Commerce, Mumbai
- 9. Dr. Ammelia Correa, Associate Professsor, Head, Dept. of Economics, St. Andrews College, Mumbai
- 10. Dr. Koel Roy Choudhary, Head, Dept. of Economics, SIES College of ARTS, Science & Commerce, Nerul.

LIST OF EXAMINERS

- Dr. Manashree Kusnur, Head & Associate Professor, Department of Economics, SIES College of Arts, Science & Commerce.
- 2. Dr. Shruti Panday, Assistant Professor, Department of Economics, SIES College of Arts, Science & Commerce.
- 3. Mr. Sampath.V.Sambasivan, Assistant Professor, Department of Economics, SIES College of Arts, Science & Commerce.
- 4. Dr. Neha Karnik, Assistant Professor, Department of Economics, SIES College of Arts, Science & Commerce.

Semester I

F.Y. B.A.

Name of the subject: Economics Paper I

Title of the paper: Micro Economics I

Paper Code: SIUAECO11

Number of Credits: 3

Total No. of Lectures: 45

Objective-This course is designed to introduce the students to elementary concepts in

microeconomics. The student should be able to use these concepts to understand the relevance

of microeconomics to the real world. The student should be able to build on these concepts in

the future to develop deeper understanding of the Economy.

Module 1 - Ten Principles of Economics

(10 Lectures)

Trade-offs faced by the individuals – significance of opportunity cost in decision making –

thinking at the margin- responses to incentives-benefits from exchange- organization of

economic activities through markets and its benefits – role of government in improving market

outcomes – dependence of standard of living on production- growth in quantity of money and

inflation - inflation and unemployment trade-off.

Module 2 - Economics and Its Methods

(12 Lectures)

The scientific method -role of assumptions- economic models: circular flow of income and

production possibilities curve -Micro economics and Macroeconomics-economist as policy

advisors: positive economics and normative economics - causes of disagreement among

economists -basics of graphs (graph of single variable, graph of two variable, curves in the co-

ordinate system, slope cause and effect).

Module 3 - Markets, Demand and Supply

(13 Lectures)

Market- competition — perfect, imperfect- demand curves: market demand versus individual demand - movements along the demand curve-shifts in the demand curve, supply curves: market supply and individual supply- shifts in supply curve—market equilibrium — three steps to analyze changes in equilibrium —price ceilings and floors-taxes and their impact-price elasticity of demand- total revenue and the elasticity of demand - impact of price elasticity on revenue

Module 4 - Interdependence and Trade

(10 Lectures)

Specialisation and trade –meaning of absolute cost advantage –opportunity cost and comparative cost advantage – comparative advantage and trade- gains from trade- application of comparative cost advantage to international trade – economic integration – custom unions and trade treaties.

- 1. Austan Goolsbee, S. L. (2017). *Microeconomics*. New York: Worth Publishers.
- 2. Laidler, D. (1981). *Introduction to Microeconomics*. New Delhi: Heritage Publishers.
- 3. Mankiw, Gregory (2015) . *Principles of Microeconomics*. New Delhi: Cengage Learning.
- 4. Robert Pindyck, D. R. (2017). Microeconomics 8th Edition. New Delhi: Pearson.
- 5. Salvatore, Dominick (2003). *Microeconomics: Thoery and Applications*. Oxford University Press. New Delhi.
- 6. Sen, Anindhya (2007). *Microeconomics: Theory and Applications*. Oxford University Press, New Delhi.

Semester II

F. Y.B.A.

Name of the subject: Economics Paper I

Title of the paper: Macro Economics I

Paper Code: SIUAECO21

Number of Credits: 3

Total No. of Lectures: 45

Objective-This course is designed to introduce the student to the basic building blocks of

macroeconomics. Using an open economy framework, the course develops an understanding of

the constituents of the open economy. The student should be able to build on these constituents

in the later years so as to be able to analyse macroeconomic policies.

Module 1 - Concepts and Definitions

(10 Lectures)

Circular flow of Income in an Open Economy-GDP-GNP-NNP- GDP Deflator-Real and

Nominal quantitates—GDP at purchasing power parity—Exchange rate as a price—GDP Growth:

India's experience -Trends in Growth Rate and sectoral Composition of GDP- Parallel

economy – Demonetisation- Sources of Data

Module 2 - Consumption, Saving and Investment

(13 Lectures)

National Income Identity in an Open Economy- Keynesian Consumption Function- Investment

Multiplier-Marginal Efficiency of Capital and Rate of Interest-Accelerator- Savings in India:

Trends and Composition-Capital Formation in India: Trends and Composition- Sources of

Data.

Module 3 - Government

(12 Lectures)

Public Goods and their Features- Merit Goods- Sources of Revenue: Direct and Indirect Tax-

Impact, Shifting and Incidence of Tax- Sources of Non- Tax Revenue- Public Expenditure:

Revenue and Capital Expenditure- Subsidies- Types of Deficit: Revenue, Budgetary, Fiscal and Primary-Concept of fiscal consolidation (GST)-Recent Trends- Sources of Data.

Module 4 - External Sector

(10 Lectures)

Structure of Balance of Payments-Types of Disequilibrium in BOP- Exchange Rate Determination Concept of FOREX and its components-Foreign capital –FDI, FII, foreign aid-Sources of Data.

- 1. Bernanke, B.S., D, Croushore, A.B Abel (2011) . *Macroeconomics*. Pearson, New Delhi.
- 2. C Rangarajan, D. H. (2012). *Principles of Macroeconomics*. New Delhi: Tata McGrawHill.
- 3. D'Souza, E. (2012). Macroeconomics. New Delhi: Pearson Education India
- 4. Froyen, R. T. (2014). Macroeconomics: Theory & Policy. New Delhi: Pearson.
- 5. Mankiw, Gregory (2015). Principles of Macroeconomics. Cengage Learning, New
- 6. S. Sikdar (2006). Principles of Macroeconomics. Oxford University Press, New Delhi

SCHEME OF EXAMINATION

Examination will consist of internal and semester end divided as 40 marks for internal and 60 marks for Semester end.

Internal Assessment

Internal assessment of 40 marks will be divided as 20 marks for class test, 20 marks for assignment.

Semester End Examination

The pattern for Semester end paper of 60 marks will be as follows:

- Duration 2 hours for each paper.
- There shall be four questions each of 15 marks. All questions shall be compulsory.
- Questions may be subdivided into sub-questions a, b, c and students are expected to answer two out of three.

Questions	Modules	Marks
Q N 1	Module 1	15
Q N 2	Module 2	15
Q N 3	Module 3	15
Q N 4	Module 4	15

Semester III

S.Y.B.A

Name of the subject: Economics Paper I

Title of the paper: Indian Economy: Contemporary Concerns

Paper Code: SIUAECO31

Number of Credits: 3

Total No. of Lectures: 45

<u>Objective</u> - The course aims to give a broad understanding regarding the contemporary developments in Indian economy. The purpose of the course is to gain a perspective with regard to the contemporary challenges and opportunities of India's economic development.

Module 1 - Demonetisation: To Deify or Demonize?

(10 lectures)

Objectives of demonetisation and previous instances of demonetisation - India's demonetisation as unprecedented in international economic history - Short term costs and Long term benefits of demonetization - Analytics of demonetization - Future policy measures to maximise benefits and minimise costs of demonetisation

Module 2 - Fiscal Framework - The World is Changing, Should India Change Too?

(13 lectures)

Fiscal Responsibility and Budget Management (FRBM) Act - Why there is a need for counter- cyclical fiscal policy in India? - Debt dynamics with the help of equation for debt sustainability - Fiscal Rules: Lessons from the States -Fiscal Responsibility Legislation (FRL) - Impact of FRL on Budget process - Impact of FRL on Deficits - Lessons for future fiscal rules

Module 3 - Universal Basic Income - A Conversation With and Within the Mahatma

(12 lectures)

The Conceptual/Philosophical case for UBI - The Conceptual Case against UBI - Arguments in Favour and Against UBI - How can UBI overcome the issues of misallocation and leakages of resources? - Can UBI improve financial inclusion? - Will UBI lead to moral hazard and reduce labour supply? - What are the guiding principles for setting up UBI? -What are the prerequisites for introducing UBI? - Is there fiscal space to finance UBI?

Module 4 - Income, Health and Fertility- Convergence Puzzles

(10 lectures)

Income convergence/divergence within India - Consumption convergence/divergence within India- Health Convergence within India with room for improvement against International standard - Total Fertility rate convergence (India and World) - Interpreting Graphs/Data regarding Income/Life Expectancy/ Infant mortality rate/Total fertility rate (For All Indian States)

- 1. *basicincome.org*. (2018, July 21). Retrieved from Basic Income Earth Network: https://basicincome.org/basic-income/
- 2. Government of India (2017). *Economic Survey of India 2016-17, Volume I,* 53-81. Ministry of Finance, Oxford University Press New Delhi, India.
- 3. Government of India (2017). *Economic Survey of India 2016-17, Volume I*, 105-2017. Ministry of Finance, Oxford University Press New Delhi, India.
- 4. Government of India (2017). *Economic Survey of India 2016-17, Volume I*, 173-212. Ministry of Finance, Oxford University Press New Delhi, India.
- 5. Government of India (2017). *Economic Survey of India 2016-17, Volume I,* 213-230. Ministry of Finance, Oxford University Press New Delhi, India.
- 6. Government of India (2017). FRBM Review Committee Report. New Delhi: Ministry of Finance. Retrieved July 21, 2018, from

https://dea.gov.in/sites/default/files/Volume%201%20FRBM%20Review%20Committee%20Report.pdf

7. R.Ramakumar. (2017). *Note-Bandi: Demonetisation and India's Elusive Chase for Black Money*. New Delhi: Oxford University Press.

Semester III

S.Y.B.A

Name of the subject: Economics Paper II

Title of the paper: Micro Economics II

Paper Code: SIUAECO32

Number of Credits: 3

Total No. of Lectures: 45

Objective- The course is designed to develop the student's understanding of basic tools of

microeconomic analysis. It builds on the material covered in semester-I and is designed to

help the student apply microeconomics to the real world. The modules give an insight of how

individual as consumers and producers try to maximize their utility with given resources. One

of the objectives is to make students aware of the real market situation and demand and

supply interaction in a market.

Module 1 - Utility Analysis

(13 lectures)

Preferences-strong ordering-weak ordering - completeness- transitivity-rational preferences-

utility as representation of preferences-indifference curves and their properties -budget

constraint- utility maximisation and consumer's equilibrium-income effect-substitution

effect- derivation of demand curves.

Module 2 - Production Analysis

(12 lectures)

Production function - Cobb-Douglas production function-short run and long run returns to

scale-Isoquants and their properties –MRTS-iso-cost curves-cost minimisation and producer's

equilibrium-derivation of factor demand curves

Module 3 – Costs & Revenue

(10 lectures)

Various concepts of costs and their inter-relationship - behaviour of costs in the short run and the long run -long run average cost curve and its derivation-implicit and explicit costs- total revenue-marginal revenue-average revenue.

Module 4 - Competitive Markets

(10 lectures)

Features – price equals marginal cost in competitive markets- supply curve and derivation in competitive markets- equilibrium of the firm and the industry – consumer's surplus-producer's surplus - economic efficiency in competitive markets.

- 1. Austan Goolsbee, S. L. (2017). Microeconomics. New York: Worth Publishers.
- 2. Laidler, D. (1981). *Introduction to Microeconomics*. New Delhi: Heritage Publishers.
- 3. Mankiw, Gregory (2015). Principles of Microeconomics. New Delhi: Cengage Learning.
- 4. Robert Pindyck, D. R. (2017). Microeconomics 8th Edition. New Delhi: Pearson.
- 5. Salvatore, Dominick (2003). *Microeconomics: Theory and Applications*. Oxford University Press. New Delhi.
- 6. Sen, Anindhya (2007). *Microeconomics: Theory and Applications*. Oxford University Press, New Delhi.

SCHEME OF EXAMINATION

Examination will consist of internal and semester end divided as 40 marks for internal and 60 marks for Semester end.

Internal Assessment

Internal assessment of 40 marks will be divided as 20 marks for class test, 20 marks for assignment.

Semester End Examination

The pattern for Semester end paper of 60 marks will be as follows:

- Duration 2 hours for each paper.
- There shall be four questions each of 15 marks. All questions shall be compulsory.
- Questions may be subdivided into sub-questions a, b, c and students are expected to answer two out of three.

Questions	Modules	Marks
Q N 1	Module 1	15
Q N 2	Module 2	15
Q N 3	Module 3	15
Q N 4	Module 4	15

Semester III

S.Y.B.A Applied Component

Name of the subject: Applied Component Paper I

Title of the paper: Demography

Paper Code: SIUADEM31

Number of Credits: 2

Total No. of Lectures: 45

<u>Objective</u>- The modules incorporated in this paper educate the students about the inter-relationship between economic development and population along with an exposition of the established theories of population. Issues related to demographic techniques and basic sources of demographic data in the Indian economy have also been included.

<u>Module 1 – Introduction</u>

(15 lectures)

Demography – Its definition, nature and scope, its relation with other disciplines - Theories of Population - Malthusian Theory, Optimum theory of population and theory of demographic transition - Population growth in India - Features of Indian population.

Module 2 - Sources of demographic data in India

(15 lectures)

Salient features of census – including 2011census - Civil Registration System - National Sample Survey-Demographic Survey – National Family Health survey -1,2 and 3 - Relative merits and demerits of these sources.

Module 3 - Techniques of Analysis

(15 lectures)

Crude birth rate and death rate, Age specific birth rate and death rate, standardized birth rate

and death rate - Study of fertility - total fertility rate, gross reproduction rate and net reproduction rate- Measurement of population growth rate - simple growth rate and compound growth rate.

- 1. Agarwal, S. S. (1985). *India's Population Problem* . Tata McGraw-hill Mumbai.
- 2. Jhingan, M. (2016). *Demography*. New Delhi: Vrinda Publications.
- 3. Kachole, D. D. (2001). Demography. Kailasha Publication, Aurangabad, India.
- 4. Sharma, R. K. (2007). Demography and Population Problems. New Delhi: Atlantic.
- 5. Sreenivasan, K. (1998). *Basic Demographic Techniques and Applications*, Sage Publishers, New Delhi.
- 6. Swain, P.C. (2008). Population Studies: Kalyani Publishers, Ludhiana, India.

Semester III

S.Y.B.A Applied Component

Name of the Paper: Applied Component Paper I

Title of the paper: Elementary Quantitative Techniques

Paper Code: SIUAEQT31

Number of Credits: 2

Total No. of Lectures: 45

<u>Objective</u> - The paper on Elementary Quantitative Techniques for Semester III consists of three modules. Module I and Module II are based on statistical techniques, while Module III comprises basic probability and has incorporated arithmetic techniques (financial applications) which will help in furbishing the quantitative aptitude of students.

<u>Module 1 – Introduction to Quantitative Techniques</u>

(15 lectures)

Data sources -primary and secondary sources—Frequency distribution-univariate and cumulative.-Graphical representation using Bar diagrams, Pie charts and Histogram - Measures of Central Tendency-Mean, Median and Mode.

Module 2 – Measures of Dispersion & Correlation

(15 lectures)

Measure of Dispersion-Absolute and relative - Measures of correlation - Spearman's and Karl Pearson's.

Module 3 – Basics of Probability & Financial Statistics

(15 lectures)

Probability- concepts: sample space, independent and dependent events, calculation of probability using permutation and combination- Financial Statistics: Profit, loss and discount. Simple and compound interest, growth and depreciation.

- 1. Dowling, T. Edward (2004). *Introduction to Mathematical Economics*: Tata McGraw Hill New Delhi.
- 2. Guha, A. (2005). Quantitative Aptitude. Tata McGraw-Hill, New Delhi.
- 3. Gupta, S. P. (2008). Statistical Methods. S.Chand New Delhi.
- 4. Malcolm Pemberton, N. R. (2017). *Mathematics for Economists*. Manchester: Manchester University Press.
- 5. Mehta, B. (2013). Mathematics for Economists. New Delhi: Sultan Chand & Sons.
- 6. Sancheti, D. C, V.K Kapoor (2007). Statistics: Theory, Methods and Applications. Sultan Chand & Sons, New Delhi.

SCHEME OF EXAMINATION

Examination will consist of internal and semester end divided as 40 marks for internal and 60 marks for Semester end.

Internal Assessment

Internal assessment of 40 marks will be divided as 20 marks for class test, 20 marks for assignment.

Semester End Examination

The pattern for Semester end paper of 60 marks will be as follows:

- Duration 2 hours for each paper.
- There shall be four questions each of 15 marks. All questions shall be compulsory.
- Questions may be subdivided into sub-questions a, b, c and students are expected to answer two out of three.

Questions	Modules	Marks
Q N 1	Module 1	15
Q N 2	Module 2	15
Q N 3	Module 3	15
Q N 4	Three sub-questions from	15
	Module 1, 2, 3.	

Semester IV

S.Y.B.A.

Name of the subject: Economics Paper I

Title of the paper: Development Issues of Maharashtra's Economy

Paper Code: SIUAECO41

Number of Credits: 3

Total No. of Lectures: 45

Objective - The course aims to give a broad understanding regarding the economy of

Maharashtra. The purpose of the course is to gain a perspective with regard to various

development issues faced by Maharashtra.

Module 1 - Introduction to Maharashtra's Economy

(10 lectures)

Backdrop, Demography, Key Indicators of Development, Macroeconomics development of the

Regions, Paradigm Shift

Module 2 - Importance of Tribal Areas

(10 lectures)

Present Status, Comparison with States, PCI, Poverty, Overview of Nutrition, Health &

Education, Causes of Deprivation, Reforms to be undertaken

Module 3 - Water Resources

(15 lectures)

Availability of Water resources, government policy, overview of irrigation development (No

division – wise discussion), overview of irrigation in Rest of Maharashtra, General Overview of

Rural & Urban areas water supply, Recommendation for water distribution/Balanced

development

Module 4 - Health and connectivity

(10 lectures)

<u>Health</u>: The Kelkar Committee approach to health, Regional disparities, Health Care Systems,

Health outcomes, Recommendation and Strategies

<u>Connectivity</u> – Introduction, General Overview of Roads, Railways, Ports, Airports and Broadband, Resources required.

- 1. Government of Maharashtra (2013). Report of the High Level Committee on Balanced Regional Development Issues in Maharashtra, 65-98, 119-131, Planning Department, Mumbai.
- 2. Government of Maharashtra (2013). *Report of the High Level Committee on Balanced Regional Development Issues in Maharashtra*, 357-375, Planning Department, Mumbai.
- 3. Government of Maharashtra (2013). Report of the High Level Committee on Balanced Regional Development Issues in Maharashtra, 293-307, 330-355, Planning Department, Mumbai.
- 4. Government of Maharashtra (2013). Report of the High Level Committee on Balanced Regional Development Issues in Maharashtra, 357-375, 403-404 Planning Department, Mumbai.
- Government of Maharashtra (2018). Economic Survey of Maharashtra 2017-18, 3-20, 94-95, 160-171, 177-205, 219-222, Mumbai: Directorate of Economics and Statistics Planning Department.

Semester IV

S.Y.B.A.

Name of the subject: Economics Paper II

Title of the paper: Macro Economics II

Paper Code: SIUAECO42

Number of Credits: 3

Total No. of Lectures: 45

Objective- This paper is designed to build on the understanding of basic macroeconomic

identity introduced in Semester II. The various components are detailed here in the context of a

closed economy. The objective is to enable the student to understand how interest rate and

income level are determined in a closed economy and how policy may affect these outcomes.

Module 1 - Money

(12 lectures)

Concept of money- supply of money- CRR, CDR, high powered money and its components-

Money multiplier- current measures of money supply in India -quantity theory of money-

velocity of circulation- factors affecting velocity of circulation- Fisher and Cambridge

equations.

Module 2 - The Money-Market

(10 lectures)

Motives for holding money- transactions motive-precautionary motive-speculative motive-

interest rate as cost of holding money- liquidity trap- money-market equilibrium-derivation of

LM curve-shifts in the LM curve.

Module 3 - The Goods Market

(10 lectures)

Savings function-marginal propensity to save- investment demand function and its interest

elasticity- animal spirits- equilibrium in the goods market- derivation of the IS curve-shifts in

the IS curve.

Simultaneous equilibrium in the goods and money markets (IS-LM equilibrium) – determination of income and interest rates- monetary policy and its instruments- effectiveness of monetary policy- Fiscal policy and its instruments- effectiveness of Fiscal policy.

- 1. Bernanke, B.S., D, Croushore, A.B Abel (2011) . *Macroeconomics*. Pearson, New Delhi.
- 2. C Rangarajan, D. H. (2012). *Principles of Macroeconomics*. New Delhi: Tata McGrawHill.
- 3. D'Souza, E. (2012). Macroeconomics. New Delhi: Pearson Education India
- 4. Froyen, R. T. (2014). Macroeconomics: Theory & Policy. New Delhi: Pearson.
- 5. Mankiw, Gregory (2015). Principles of Macroeconomics. Cengage Learning, New
- 6. S. Sikdar (2006). Principles of Macroeconomics. Oxford University Press, New Delhi

SCHEME OF EXAMINATION

Examination will consist of internal and semester end divided as 40 marks for internal and 60 marks for Semester end.

Internal Assessment

Internal assessment of 40 marks will be divided as 20 marks for class test, 20 marks for assignment.

Semester End Examination

The pattern for Semester end paper of 60 marks will be as follows:

- Duration 2 hours for each paper.
- There shall be four questions each of 15 marks. All questions shall be compulsory.
- Questions may be subdivided into sub-questions a, b, c and students are expected to answer two out of three.

Questions	Modules	Marks
Q N 1	Module 1	15
Q N 2	Module 2	15
Q N 3	Module 3	15
Q N 4	Module 4	15

Semester IV

SYBA Applied Component

Name of the Paper: Applied Component Paper I

Title of the paper: Demography

Paper Code: SIUADEM41

Number of Credits: 2

Total No. of Lectures: 45

Objective- Students are introduced to the concepts of fertility, mortality, nuptiality and life

table with the intention of making them aware about the crucial role played by these factors in

the economic well-being of the population. Students are also introduced to concepts of

migration and urbanization. Aspects of the population policy and the study of its social

characteristics are other important components of the modules of this paper.

Module 1 - Fertility, Nuptiality and Mortality

(15 lectures)

Fertility – concept and factors affecting fertility - Nuptiality – concept, age at marriage and

factors affecting nuptiality - Mortality - concept and factors affecting mortality - Life Table -

concept and its importance.

Module 2 - Migration and Urbanisation

(15 lectures)

Migration – concept and types, factors affecting migration, Theory of Migration (Harris and

Todaro model), issues related to migration- Urbanisation - Concept, trends and patterns of

urbanization in India, problems of urbanization in India (poverty, food supply, water,

sanitation, housing, slum areas, employment, health, education, transport, environment etc.).

Module 3 - Population Policy

(15 lectures)

Salient features and evolution of India's population policy- Shift in policy focus from

population control to family welfare to women empowerment- Family Planning – Meaning,

importance and methods of family planning- Population Projection in India.

- 1. Agarwal, S. S. (1985). India's Population Problem .Tata McGraw-hill Mumbai.
- 2. Jhingan, M. (2016). Demography . New Delhi : Vrinda Publications .
- 3. Kachole, D. D. (2001). Demography. Kailasha Publication, Aurangabad, India.
- 4. Sharma, R. K. (2007). Demography and Population Problems. New Delhi: Atlantic.
- 5. Sreenivasan, K. (1998). Basic Demographic Techniques and Applications, Sage Publishers, New Delhi.
- 6. Swain, P.C. (2008). Population Studies: Kalyani Publishers, Ludhiana, India.

Semester IV

SYBA Applied Component

Name of the Paper: Applied Component Paper I

Title of the paper: Elementary Quantitative Techniques

Paper Code: SIUAEQT41

Number of Credits: 2

Total No. of Lectures: 45

Objective - The paper on Elementary Quantitative Techniques for Semester IV consists of three

modules. Module I and Module II are based on mathematical techniques, while Module III has

incorporated financial mathematics which will help in furbishing the quantitative aptitude of

students.

Module 1 – Functions & Limits

(15 lectures)

Functions-graphing of functions (constant, linear, quadratic, cubic), and their applications in

economics - Limits, continuity, derivatives and rules of differentiation-constant function, linear

function, power function, sum and difference, product and quotient.

Module 2 – Calculus, Linear Programming and their application in economics (15 lectures)

Second order derivatives and economic applications- marginal cost, marginal revenue, profit

maximization- Linear Programming- formulation of the objective function and the constraints,

graphical solution.

Matrix algebra-definition and types of matrices. Algebraic operations of addition, subtraction, scalar multiplication, and multiplication of matrices {2x2 only}

- Basic Mathematical Concepts-arithmetic progression, geometrical progression, sum of n terms, series.

- 1. Dowling, T. Edward (2004). *Introduction to Mathematical Economics*: Tata McGraw Hill New Delhi.
- 2. Guha, A. (2005). Quantitative Aptitude. Tata McGraw-Hill, New Delhi.
- 3. Gupta, S. P. (2008). Statistical Methods. S.Chand New Delhi.
- 4. Malcolm Pemberton, N. R. (2017). *Mathematics for Economists*. Manchester: Manchester University Press.
- 5. Mehta, B. (2013). Mathematics for Economists. New Delhi: Sultan Chand & Sons.
- 6. Sancheti, D. C, V.K Kapoor (2007). *Statistics: Theory, Methods and Applications*. Sultan Chand & Sons, New Delhi.

SCHEME OF EXAMINATION

Examination will consist of internal and semester end divided as 40 marks for internal and 60 marks for Semester end.

Internal Assessment

Internal assessment of 40 marks will be divided as 20 marks for class test, 20 marks for assignment.

Semester End Examination

The pattern for Semester end paper of 60 marks will be as follows:

- Duration 2 hours for each paper.
- There shall be four questions each of 15 marks. All questions shall be compulsory.
- Questions may be subdivided into sub-questions a, b, c and students are expected to answer two out of three.

Questions	Modules	Marks
Q N 1	Module 1	15
Q N 2	Module 2	15
Q N 3	Module 3	15
Q N 4	Three sub-questions from	15
	modules 1, 2, 3.	

Semester V

T.Y.B.A

Name of the subject: Economics Paper I

Title of the paper: History of Economic Thought

Paper Code: SIUAECO51

Number of Credits: 4

Total No. of Lectures: 45

<u>Objective</u> – This course provides basic understanding about the celebrated economists and their contributions starting from the classical period. It throws light on the contributions of Nobel Laureates of recent period too.

Module 1 - Classical Period

(13 lectures)

Adam Smith - division of labour, theory of values, capital accumulation, distribution, David Ricardo- Value, theory of rent, distribution. Karl Marx - dynamics of social changes, theory of values, surplus value, profit and crisis of capitalism and Contemporary Relevance.

Module 2 - Marginality: Marshall to Schumpeter

(12 lectures)

Role of time in price determination, economics methods, ideas of consumer's surplus, representative firm, external and internal economies, quasi-rent, nature of profit; Pigou: welfare economics: Schumpeter: role of entrepreneur and innovation.

Module 3 - Keynesian Ideas

(10 lectures)

Liquidity Preference Theory and Liquidity trap, Consumption Function, MPG, Multiplier & Accelerator principles and their interaction, wage rigidities, underemployment equilibrium, role of fiscal policy: deficit spending and public works, multiplier principles, cyclical behaviour of the economy.

Hayek — Supply side economics: Arthur Laffer,- Monetarism: Milton Friedman's Don Patinkin — An overview of the new classical economics: Robert Lucas. Nobel Prize Winners in Economics: A. K. Sen (1998), Joseph Stiglitz (2001), Paul Krugman (2008), Jean Tirole (2014), Angus Deaton (2015), Richard Thaler (2017).

- Dasgupta A. K (1985). Epochs of Economic Theory Oxford University Press. New Delhi
- 2. Ghosh and Ghosh (). Concise History of Economic Thought, Himalaya Publications
- 3. Gide, O and G. Rist (1956). *A History of Economic Doctrine*, George Harrop Co. London.
- 4. Puttasswamaiah K. (1995). *Nobel Economist -Lives and Contributions*, Indus Public Co. New Delhi.
- 5. Roll, E, (1973). A History of Economic Thought, Faber Landon.
- 6. Schumpeter, J.A (1951). Ten Great Economist, Oxford University Press, New York.

Semester V

T.Y.B.A

Name of the subject: Economics Paper II

Title of the paper: Economics of Development

Paper Code: SIUAECO52

Number of Credits: 4

Total No. of Lectures: 45

<u>Objective</u> - The aim of the paper is to make the students aware about the contemporary development issues faced by economies. The paper aims to provide the students a strong theoretical base to understand various development issues.

Module 1 - Concepts of Economic Growth and Development

(10 Lectures)

Meaning of Growth and Development, Distinction between growth & development, Concept of human development, HDI, GDI, Sustainable development, Green GDP, Three core values of development, Capability Approach

Module 2 - Structural Issues in Development Process

(12 Lectures)

Big push theory, Schumpeter's theory of development, dual economy models of growth, Low Income Equilibrium Trap model, Solow's growth model, Kuznet- Clark Thesis.

Module 3 - Inequality, Poverty and Development

(10 Lectures)

Measures of poverty and inequality — Kuznet's Inverted U-hypothesis — Policy options for poverty alleviation Inclusive growth — Self Help Groups and Micro Finance.

Role of Infrastructure in economic development —Role of technology in economic development, Types of technical progress —Schumacher's Concept of Intermediate/ Appropriate technology, Green technology.

- 1. Boldwin, (1957). *Economic Development: Theory, History and Policy*, Willy Publications
- 2. Mamoria, Joshi (1979). *Principles and practice of marketing in India*, Kitab Mahal, India
- 3. Meier, Gerald M. and James E. Rauch (2006). *Leading Issues in Economic Development*, Oxford Univ. Press, Delhi.
- 4. Sinha Francis (2009). *Microfinance Self Help Groups in India: Living up to Their Promises*, Practical Action Publishing, England
- 5. Thirlwall, A.P. (2005). *Growth and Development*, Eighth edition, Palgrave MacMillan New York.
- 6. Todaro, Michael P. and Stephen C. Smith (2003). *Economic Development*, Eighth edition, Pearson Education, Delhi, India.

Semester V

T.Y.B.A

Name of the subject: Economics Paper III

Title of the paper: Micro Economics III

Paper Code: SIUAECO53

Number of Credits: 4

Total No. of Lectures: 45

<u>Objective</u> - The course is designed to provide sound training in microeconomic theory. Since students have already studied the perfect competition, the focus of this course is on the study of imperfect completion and general equilibrium and welfare economics.

Module 1 - Monopoly (12 Lectures)

Sources of monopoly - Profit maximising monopoly — Calculation of price, output and profit for monopoly- Price discrimination: First, Second and Third degree- Public policy towards monopoly.

Module 2 - Basics of Game theory (10 Lectures)

Basics of Game theory— Prisoner's dilemma—dominant strategy equilibrium—Battle of sexes game — Nash equilibrium — Extensive form games — game tree - Solving finite extensive form game.

Module 3 - Oligopoly (10 Lectures)

Oligopoly-the Cournot model-the Bertrand model - the Edgeworth model-the Chamberlin model - the kinked demand curve model - Collusion and Cartels - Price Leadership.

General Equilibrium and Welfare Economics–Interdependence in the Economy–General Equilibrium and its Existence -The Pareto Optimality Condition of Social Welfare, Marginal Conditions for Pareto Optimal Resource Allocation, Perfect Competition and Pareto Optimality - Kaldor- Hicks Compensation Criterion - Arrow's Impossibility Theorem.

- 1. Daniel Rubinfeld, Robert Pindyck. (2017). Microeconomics. New Delhi: Pearson.
- 2. Gibbons, R. (1992). A Primer in Game Theory. New Delhi: Harvester Wheatsheaf.
- 3. Koutsoyannis. (1975). Modern Microeconomics. London: Macmillan Press Ltd.
- 4. Mankiw, Gregory. (2015). *Principles of Microeconomics*. New Delhi: Cengage learning.
- 5. Salvatore, Dominick. (2006). *Microeconomics: Theory and Applications*. New Delhi: Oxford University Press.
- 6. Sen, Anindhya. (2007). *Microeconomics: Theory and Applications*. New Delhi: Oxford University Press

T.Y.B.A

Name of the subject: Economics Paper IV

Title of the paper: Mathematical and Statistical Techniques for Economic Analysis

Paper Code: SIUAECO54

Number of Credits: 4

Total No. of Lectures: 45

Objective - A plethora of data has emerged at an exponential rate and it is the description,

interpretation and understanding of these data and drawing of accurate conclusions that is

imperative for a student of Economics. The aim of this paper is to provide students with the

mathematical and statistical skills and understanding needed for 'knowing why' and 'when' to

apply these techniques.

Module 1 - Equations, Graphs and Derivatives

(12 lectures)

Microeconomic applications equations and graphs Linear and non-linear-relationships in

economic analysis-Market demand and supply models, taxes, elasticity, Derivatives and their

applications in various areas of economic analysis-Higher order derivatives- Increasing and

decreasing functions; Necessary and conditions for maxima and minima- Optimization of

economic functions

Module 2 - Linear Algebra

(10 lectures)

Matrices and basic operations on matrices- Rank of a matrix- Inverse of a matrix- Cramer's

rule (input-Output Analysis and policy implications- Linear program Problem: Formulation

and graphical solution)

Concept of primary and secondary data along with tabulation and measures of Central tendency (only mean, Median and Mode) absolute and relative dispersion (range, quartile deviation, mean deviation and standard deviation) with simple applications — Measures of skewness and kurtosis — Lorenz Curve. Commercial Statistics — Brokerage, Commission and Insurance.

Module 4 - Elementary Probability Theory

(10 lectures)

Sample space and events— mutually exclusive, exhaustive and complimentary events— Conditional probability— Binomial probability distribution— Nature and Properties of the Normal Probability Distribution; Standard Scores and the Normal Curve; The Standard Normal Curve: Finding Areas when the Score is Known, Finding Scores when the area is known.

- 1. Chiang A. C. (1984). Fundamental Methods of Mathematical Economics, Third edition, McGraw-Hill
- 2. Dowling Edward T. (1993). *Theory and Problems of Mathematical Methods for Business and Economics*, Tata McGraw-Hill, New Delhi.
- 3. Dowling Edward T. (2004). *Introduction to Mathematical Economics*, Schaum Outline Series in Economics, Tata McGraw-Hill, New Delhi.
- 4. Gupta S.P. (2014) .Statistical Methods, S. Chand, New Delhi,
- 5. Lerner Joel J and P. Zima (1986) *Theory and Problems of Business Mathematics*, McGraw-Hill, New York.
- 6. Sancheti D.C. and V.K. Kapoor (2014), *Statistics-Theory, Methods and Applications*, S. Chand, New Delhi.

T.Y.B.A

Name of the subject: Economics Paper VA

Title of the paper: Financial Economics

Paper Code: SIUAECO55A

Number of Credits: 3.5

Total No. of Lectures: 45

<u>Objective</u> - The course introduces students to the economics of Finance. It aims at imparting knowledge about the basic models of investment and portfolio analysis, including the CAPM. The valuation of assets, derivatives & options is to be studied in addition to patterns of corporate financing.

Module 1 - Investment & Portfolio Analysis

(12 lectures)

Basic theory of interest, discounting & present value; internal rate of return, evaluation criteria, fixed income securities; bonds prices & yields. Structure of interest rate, yield curves, spot & forward rates. Portfolio of assets, random asset returns, Mean variance portfolio analysis, The Markowitz Model & two fund theorem.

Module 2 - CAPM (10 lectures)

The capital market line, the CAPM Model, the beta of an asset & of a portfolio, security market line, CAPM model in investment & pricing formula.

Module 3 - Options & Derivatives

(13 lectures)

Meaning, functions & types of derivatives - forward contracts, futures - forward & future prices, stock index futures, interest rate futures, future for hedging. Options & Swaps and their types - Option market: call & put options, option trading strategies - spreads, straddles, strips & straps, strangles, the principle of arbitrage. Participants of derivatives market- hedgers,

speculators, arbitrageurs.

Module 4 - Corporate Finance

(10 lectures)

Patterns of corporate financing: stock, debt, preferences, convertibles. Capital structure & the cost of capital, corporate debt & dividend policy, the Modigliani —Miller theorem.

- 1. David Luenberger (1997). Investment Science, Oxford University Press, Delhi.
- 2. Hull John C. (2005). Options, Futures and other derivatives, Pearson Education,.
- 3. Richard Brealey and Stewart Myers (2002). *Principles of Corporate Finance*, McGraw Hill.
- 4. Stephen Ross and Bradford Jordan (2005). *Fundamentals of Corporate Finance*, McGraw Hill.
- 5. Thomas Copeland, J. Fred Weston and Kuldeep Shastri (2003). *Financial Theory and Corporate Policy*, Prentice Hall
- 6. William Sharpe, Gordon Alexander and J. Bailey (2003). *Investment*, Prenice Hall of India.

T.Y.B.A

Name of the subject: Economics Paper VB

Title of the paper: Economics of Agriculture and Cooperation

Paper Code: SIUAECO55B

Number of Credits: 3.5

Total No. of Lectures: 45

<u>Objective</u> – The aim of the paper is to introduce the students to the issues and problems related to Indian agriculture. Issues related to agricultural credit, marketing and pricing are introduced to the students to these aspects.

Module 1 - Agricultural Productivity

(12 lectures)

Role of agriculture in economic development - Cropping Pattern Agricultural Productivity, Causes of Low Productivity in Agriculture - Measures taken to improve the Agricultural Productivity in India - Water Management and agricultural development - Agricultural labour: Problems and suggestions.

Module 2 - Agricultural Credit

(10 lectures)

Institutional and Non-Institutional Sources of Credit - Co-operative Credit and Agriculture, Rural Indebtedness - Commercial Banks and Regional Rural Banks, microfinance - NABARD - Role and Performance.

Module 3 - Agricultural Marketing

(13 lectures)

Types of Marketing - Corporate, Commodity and Global Problems and Measures of Agricultural Marketing - WTO and Indian Agriculture. Problems of Agricultural Marketing and its measures- National Agricultural Market.

New Agricultural Policy — 2007 - Food Security in India - Price Policy of CACP Evaluation, Agricultural Crisis and Farmers' Suicide. Agro-Tourism and its policy

- 1. Datt Sundaram (2012). *Indian Economy*, S. Chand Company, New Delhi.
- 2. Memoria C. B. (1979). Agricultural Problems of India, Kitab Mahal Allahabad.
- 3. Mishra & Puri (2012). Indian Economy, Himalaya Publishing House, New Delhi.
- 4. Raj K. N. (1988). *Essays in Commercialization of Indian Agriculture*, Oxford University Press, New Delhi.
- 5. Thamarajalaxmi R. (1994). Intersectoral Relationship in Developing Economy, Academic Foundation, Delhi.

T.Y.B.A

Name of the subject: Economics Paper VI A

Title of the paper: Introduction to Econometrics

Paper Code: SIUAECO56A

Number of Credits: 4

Total No. of Lectures: 45

Objective - This course aims to impart a basic understanding of econometrics. The student will

be able to appreciate the theoretical basis of the subject. At the same time, it will enhance the

student's ability to apply the theoretical techniques to the problems of the real world. Topics

like forecasting have been introduced to impart this practical orientation.

Module 1 - Idea of a Random Variable

(10 lectures)

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 2 - Jointly distributed Random variables

(10 lectures)

Joint and marginal distributions for bivariate random variables - Conditional probability-

Conditional mean and variance-Covariance - Correlation and Partial correlation - Central limit

theorem (without proof).

Point and interval estimation - The Z distribution - The Null and Alternate hypotheses and significance testing for mean using Z distribution when population variance is known- The chi-square distribution and testing for sample variance with known population variance- The F distribution and comparing sample variances - The t distribution and hypothesis tests when population variance in unknown.

Module 4 - Regression Analysis

(13 lectures)

Two variable regression model - The concept of the PRF - Classical assumptions of regression - Derivation of the OLS estimators and their variance - Properties of OLS estimators under classical assumptions, Gauss-Markov Theorem (without proof) - Tests of Hypothesis, confidence intervals for OLS estimators - Measures of goodness of fit: R square and its limitations, adjusted R square and its Limitations.

- 1. Damodar N. Gujarati (2003). Basic Econometrics, McGraw-Hill, Delhi.
- 2. Kapoor V. K. (2011). Operations Research Problems & Solutions, Sultan Chand & sons.
- 3. Makridakis Spyros and Steven C Wheelright (2008). *Forecasting Methods and Applications*, Willey Publications.
- 4. Spiegel Murray (1989). Theory and Problems of Statistics, Schaum Outline Series.
- 5. Stock James H. and Watson Mark W. (2015). *Introduction to Econometrics*, Updated Third Edition, Global Edition, Pearson Education Limited.
- 6. Wooldridge Jeffery M. (2016). *Introduction to Econometrics: A Modern Approach*. Sixth Edition, Cengage Learning, USA.

T.Y.B.A

Name of the subject: Economics Paper VI B

Title of the paper: Environmental Economics

Paper Code: SIUAECO56B

Number of Credits: 4

Total No. of Lectures: 45

Objective—This course focuses on economic causes of environmental problems. In particular,

economic principles are applied to environmental questions and their management. Economic

implications of environmental policy are addressed as well as valuation of environmental

improvements.

Module 1 - Introduction to Environmental Economics

(10 lectures)

Introduction to environmental development and environmental economics, Rio Declaration on

environmental development, Agenda 21 program of action for sustainable development, Social

and economic dimensions, Conservation and management of resources for development.

Module 2 - The design and implementation of Environmental Policy

(13 lectures)

Overview - Criteria for evaluating environmental policies; Standards, Pigovian taxes and

effluent fees, tradable permits, choice between taxes and quotas, implementation of

environmental policy.

Module 3 - Measuring benefits of environmental improvements

(12 lectures)

Economic value of Environment- Use and Non-use values-Measurement method:-market

based and non-market based methods, contingent valuation, travel cost method, hedonic price

method, risk assessment and perceptions.

The global environment- Trans-boundary environmental problems, economics of climate change, International environmental Agreements sustainable development: Concepts and measures.

References-

- 1. Barry C. Fields (1997). *Environmental Economics: An Introduction*, McGraw Hill International Edition.
- 2. Charles Kolstad (2000). *Environmental Economics*, Oxford University Press, New York.
- 3. Hanley Nick, Shogren Jason and White Ben (2001). *Introduction to Environmental Economics*, Oxford University Press.
- 4. Kaltschmitt, Martin, Streicher, Wolfgang, Wiese, Andreas (2007). *Renewable Energy: Technology, Economics and Environment*, Springer, Germany.
- 5. Smith Stephen (2011). *Environmental Economics: A very Short Introduction*, 1st Edition, Oxford University Press, New York, 2011.
- 6. United Nations Sustainable Development, UN Conference on Environment & Development, Rio de Janerio, Brazil, Agenda 21, https://sustainabledevelopment.un.org/content/documents/Agenda21.pdf, 1992.

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T.Y.B.A

Name of the subject: Economics Paper I

Title of the paper: International Trade, Policy and Practice

Paper Code: SIUAECO61

Number of Credits: 3.5

Total No. of Lectures: 45

Objective - The basic purpose of this paper is to acquaint students with various components of the

Indian financial system, its working and the trends that have taken place over the years

especially since financial sector reforms.

Module 1 - Introduction

(12 lectures)

Inter-regional and international trade, Role of Dynamic factors i.e. change in Tastes,

Technology and Role of Factor Accumulation. Foreign Exchange Rate: Concepts - Short and

Forward rates - Foreign Exchange rate determination — Fixed and flexible exchange rate —

Interrelationship between exchange rates and Interest rates. Exchange Rate system in India,

managed floating, current and Capital Account Convertibility and their impact, FEMA.

Module 2 - Emerging new International Economic Order

(10 lectures)

GATT, Uruguay Round, WTO, WTO Agreement, Dispute settlement Mechanism, Impact of

WTO on Emerging Economies and India, Doha Round and implications of its failure-

Emergence of Regional Free Trade agreements (FTA), Bilateral Investment Treaty (BIT),

Double Taxation Avoidance Agreement (DTAA).

Module 3 - International Financial Institutions and International Debt Problem

(13 lectures)

IMF, World Bank, Asian Development Bank (ADB) New Development Bank (NDB), Asia Infrastructure Investment Bank (AIIB) and their role with special reference to India. South East Asian Crisis and Lessons for India, Global Economic Crisis, Global Financial Crisis of 2008, International Debt Problem — Emerging Global Financial Architecture.

Module 4 - Role of Foreign Capital Flow

(10 lectures)

Factors determining Foreign Investment, Foreign Institutional Investment (FII), Qualified Foreign Investment (QFI), Foreign Portfolio Investment (FPI), Role of FDI in Economic Development- Factors influencing FDI inflows- Green Field and Brown field FDI in India, Foreign Investment and Role of MNCs in India.

- 1. Bo Sodersten and Geofrey Reed (1994). *International Economics*, Third Edition, Palgrave Macmillan
- 2. Dennis R Appleyard, Alfred J Field (2013). *International Economics*, McGraw-Hill, USA.
- 3. Kindleberger Charles P. (1963). *International Economics*, Third Edition, R. D. Irwin, Homewood, IL.
- 4. Paul R Krugman, Maurice Obstfeld and Melitz Mark (2015). *International Economics: Theory and Policy*, Princeton University, USA.
- 5. Robert J Carbaugh (2003). *International Economics* (With Xtra! and Info Trac), South Western College Pub.
- 6. Robert J Carbaugh (2017). *International Economics*, South-Western Cengage Learning, USA.

T.Y.B.A

Name of the subject: Economics Paper II

Title of the paper: International Economics

Paper Code: SIUAECO62

Number of Credits: 4

Total No. of Lectures: 45

Objective -This course develops a systematic exposition of models which explain the

composition, direction, and consequences of international trade, and the determinants and effects of

trade policy. It then builds on the models of open economy macroeconomics focusing on national

policies as well as international monetary systems. It concludes with an analytical account of the

causes and consequences of the rapid expansion of international financial flows in recent

years.

Module 1 - Introduction

(10 lectures)

Importance of the study of International Economics - An overview of world trade-Distinction

between domestic & international Trade-Concepts of Cost Difference, Adam Smith's Theory

of International Trade, The Ricardian Theory.

Module 2 - Modern Theories of International Trade

(12 lectures)

Heckshcher- Ohlin Theory of International Trade, Factor Abundance: Two Criteria, Leontief

Paradox, Haberler's theory of Opportunity Cost, Law of reciprocal demand and offer curves,

Role of Factor Accumulation, Stolper-Samuelson theorem.

Module 3 - Importance of Trade and Recent trends

(13 lectures)

Monopolistic competition and trade - firm heterogeneity, FDI: The concept and role, FDI

Inflows- FDI Outflows, and the global supply chain, Business Process Outsourcing.

Module 4 - Trade Policy and Regionalism

(10 lectures)

Instruments of trade policy; why countries cooperate? - GATT, GATS, Regional Trade Agreements - controversies in trade policy (labour standards, IPR and environment) -ASEAN, SAARC, SAFTA, Protectionism.

- 1. Bo Sodersten and Geofrey Reed (1994). *International Economics*, Palgrave Macmillan
- 2. Dominick Salvatore (2011). *International Economics: Trade and Finance*, John Wiley International Student Edition, Tenth Edition.
- 3. Gordon Hanson (2012). The rise of middle Kingdoms: Emerging economies in global trade, *Journal of Economic Perspectives*, Spring.
- 4. Kindleberger Charles P (1978). International Economics, Homewood, USA.
- 5. Melitz M. and Trefler D. (2012). Gains from trade when firms matter, *Journal of Economic Perspectives*, Spring.
- 6. Paul Krugman, Maurice Obstfeld, and Marc Melitz (2012). *International Economics: Theory and Policy*, Addison-Wesley (Pearson Education Indian Edition), Ninth Edition.

T.Y.B.A

Name of the subject: Economics Paper III

Title of the paper: Macro Economics III

Paper Code: SIUAECO63

Number of Credits: 4

Total No. of Lectures: 45

<u>Objective</u>- This course introduces the students to formal modeling of a macroeconomic theory with analytical tools. It discusses goods market with fixed exchange rate, the money market, uncovered interest rate parity and the benefits and costs of fixed and flexible exchange rate

Module 1 - The Goods Market in the Open Economy

(10 lectures)

Trade Balance and its implications for GDP calculations — Export and Import Functions — The Real Exchange Rate and why it matters —Why equilibrium GDP is consistent with a trade imbalance? — Fiscal and Exchange Rate Policy with a Fixed Exchange Rate.

Module 2 - Money/Financial Markets and Mundell-Fleming Model

(12 lectures)

The LM equation for the open economy —Uncovered Interest Parity and its implications for exchange rate determination — the combined IS/LM/UIP model. Fiscal and Monetary Policy under Fixed and Flexible Exchange Rates— The Mundell-Fleming trilemma.

Module 3 - Exchange Rate Regimes & Exchange Rate Crises

(13 lectures)

The choice of regime — Fixed or Flexible —(The spectrum of arrangements from Hard Peg end to Fully Floating at the other) Why the Balance of Payments must always balance

under Floating Exchange Rates but need not balance under a Fixed or Manage Exchange Rate regime. Exchange Rate crises — the relation between Exchange Rate crises and other crises

Module 4 - International Monetary History, 1900-present

(10 lectures)

The Gold Standard — The Inter-War Period and the Great Depression — 1944, Bretton Woods System and its collapse; Fixing in Europe via ERM, and the Dollar Standard elsewhere. The Maastricht Treaty and preparations for the Euro; The Global Financial Crisis and its consequences for the Euro; The Euro Crisis, Asia Infrastructure Investment Bank (AIIB), New Development Bank (NDB), BRICS Bank.

- 1. Blanchard, Oliver (2008). Macroeconomics, Pearson education, New Delhi, India.
- 2. Dornbusch R S, Fischer and R Startz (2004). *Macroeconomics*, Eighth Edition, Tata Mc Grow Hill, New Delhi, India.
- 3. Froyen, R. T. (2001). *Macroeconomics: Theory and Policy*, Pearson Education Asia, Delhi.
- 4. Mankiw, Gregory (2003). *Macroeconomics*, Sixth Edition, Worth Publishers, New York.
- 5. Robert C Feenstra & Alan M Taylor (2014). *International Trade*, Worth Publishers,
- 6. Salvatore, D. (1997). *International Economics*, Prentice Hall, New York.

T.Y.B.A

Name of the subject: Economics Paper IV

Title of the paper: Mathematical and Statistical Techniques for Economic Analysis

Paper Code: SIUAECO64

Number of Credits: 4

Total No. of Lectures: 45

Objective - This paper proposes to equip the students with analyzing skills with sound footing

of relevant mathematical and statistical techniques. Economic analysis and

interpretation of data cannot be carried out in the absence of knowledge of these techniques

narrated here.

Module 1 - Techniques and applications of partial derivatives

(12 lectures)

Functions of several variables and partial derivatives - Second order partial derivatives -

Optimisation of multivariable functions - Constrained optimisation with Lagrange multiplier

and its economic interpretation - Marginal productivity, Income and price elasticity of demand

- Homogeneous production functions and returns to scale - Cobb-Douglas production function

Module 2 - Integral Calculus

(10 lectures)

Integration and Definite integral; area under the curve - Economic applications - Present value

of cash flows(present value of a sum to be received in future and present value of a stream of

future income) - Consumer's and Producer's Surplus- Learning curve.

Module 3 - Correlation and Regression

(13 lectures)

The meaning and significance of Correlation; Scatter plot of Bivariate Distributions;

Correlation and Causation - Karl Pearson's coefficient of correlation: Spearman's rank

correlation coefficient - Simple regression analysis- Method of Least Squares and Regression

Lines, Regression Coefficients, Relationship between correlation coefficients and regression coefficients.

Module 4 - Index Numbers and Time Series

(10 lectures)

Simple and composite index numbers- Construction, uses and problems of index numbers-Laspeyre's, Paasche's and Fisher's Index numbers- Cost of living index numbers-real income — wholesale price index number- Splicing of Components of time series, Estimation and forecasting of trend by the Least Squares Method.

- 1. Chiang A. C (1984). Fundamental Methods of Mathematical Economics, Third Edition, McGraw-Hill, 1984
- 2. Dowling Edward T (1993). Theory and Problems of Mathematical methods for Business and Economics, McGraw-Hill.
- 3. Dowling Edward T (2004). *Introduction to Mathematical Economics*, Schaum's Outline Series in Economics, Tata McGraw Hill, New Delhi.
- 4. Gupta S.P. (2016) Statistical Methods, S. Chand, New Delhi.
- 5. Lerner Joel J and P. Zima (1986). *Theory and Problems of Business Mathematics*, McGraw Hill, New York.
- 6. Sancheti D.C. and V.K. Kapoor (2014). Statistics-Theory, Methods and Applications, S. Chand, New Delhi.

T.Y.B.A

Name of the subject: Economics Paper V A

Title of the paper: Indian Financial System

Paper Code: SIUAECO65A

Number of Credits: 3.5

Total No. of Lectures: 45

<u>Objective</u>- The basic purpose of this paper is to acquaint students with various components of the Indian financial system, its working and the trends and turns that have taken place over the

years especially since financial sector reforms.

Module 1 - Indian Financial System: Structure, Trends and Turns

(12 lectures)

Meaning and components of the Financial System - Financial System and Economic

Development - Indicators of Financial Development: FR, FIR, NIR and. IR - Overview of

financial sector reforms since 1990s — Trends and turns in Indian financial sector: 1950-2017.

Module 2 - Banking in India since 1990s

(10 lectures)

Developments in Commercial banking sector since 1990s — Management of Non-Performing

Assets (NPAs); Capital Adequacy Norms - Basel Accord III - Monetary policy of the RBI —

Changes in RBI monetary policy since | 990s - Monetary Policy Committee (MPC), Payment

Banks, Mudra Bank- Transmission Channels of Monetary policy.

Money Market: Components of organized money market — Reforms in the money market - Features of Indian Money Market. Capital Market: Structure of the Indian Capital Market — Recent Developments in the Capital Market — Role of SEBI - Interlink between Money Market and Capital Market - Overview of Debt Market in India— Islamic Banking, Merchant Banking and Investment Banking.

Module 4 - Non-Banking sector of the Financial System

(10 lectures)

Non-Bank Finance Companies (NBFCs) in India and their progress - Developments in India's Insurance sector — Progress of Mutual Funds industry in India - Credit Rating Agencies in India.

- 1. Bhole, L. M (2008). Financial Institutions and Markets, Growth and Innovation, Tata McGraw-Hill, New Delhi.
- 2. Dutta Abhijit (2012). Indian Financial System, Excel Books, Delhi
- 3. Khan, M. Y. (2007). Financial Services, Tata McGraw Hill, New Delhi.
- 4. Pathak, Bharati (2008). *The Indian Financial System-Markets, Institutions, and Services*, Pearson Education, New Delhi.
- 5. Rakesh Mohan & Partha Ray (2017). Indian Financial Sector: Structure, Trends & Turns; IMF Working Paper (WP/1 7/7). https://www.imforg> Issues > 2017/01/20
- 6. Reserve Bank of India (various issues) Report on Currency and Finance, RBI, Mumbai.

T.Y.B.A

Name of the subject: Economics Paper V B

Title of the paper: Economics of Agriculture and Cooperation

Paper Code: SIUAECO65B

Number of Credits: 3.5

Total No. of Lectures: 45

<u>Objective</u>- The paper is designed to provide various aspects related to the principles of cooperation and cooperative organizations in the globalized economy. The essentials of cooperative finance are dealt in with reference to the latest trends.

Module 1 - Co-operation

(12 lectures)

Meaning and features of Co-operation - Principles of Co-operation (Manchester-1995) —Role of Co-operation in Economic development - Globalization and Co-operation-Importance and Benefits of Co-operation - Use of Big data Artificial Intelligence (AI) in Indian Agriculture

Module 2 - Co-operative Finance in India

(13 lectures)

Co-operative Finance: Need, Structure, Progress and Problems - National Co-operative Development Corporation (N.C.D.C.), Aadhar as KYC Norm for Agricultural Finance - Farmers service societies and urban Co-operative banks.

Module 3 - Agricultural Co-operatives

(10 lectures)

Role and Types of Agro-Industries - Problems and Measures of Agro-Industries — Sugar and Dairy Co-operatives - Food and Fruits Processing Industry - Co-Operative Farming.

Consumer Co-operatives - Co-Operative Marketing - Housing Co-operative societies - Labour Co-operative societies - Agricultural Marketing societies-Leadership in Cooperative development.

- 1. Hajela T. N. (2000). *Principles, Problem and Practice of Co-operation*, Agarwal publication, New Delhi.
- 2. John Matthai (1925). *Agricultural Co-Operation in India*, Reliance Publishing House, New Delhi.
- 3. Krishnaswami (1985). *Fundamentals of Co-Operation*, S. Chand and Company Ltd, New Delhi.
- 4. Mathur B. S (2000). Co-Operation in India, Sahitya Bhavan, Agra, India.
- 5. R. D. Bedi (1983). *Theory, History and Practice of Co-Operation*, International Publishing House, Meerut (U.P.).

T.Y.B.A

Name of the subject: Economics Paper VI A

Title of the paper: Theory and Practice of Econometrics

Paper Code: SIUAECO66A

Number of Credits: 4

Total No. of Lectures: 45

Objective - The paper is aims to help students understand the art of model building. It focuses on

building the appropriate model and testing it statistically and to apply it to the practical

problems in forecasting and analysis.

Module 1 - Econometric Model Specification

(10 lectures)

Identification: Structural and reduced form - Omitted Variables Bias- Errors in measurement-

Endogeneity and Bias.

Module 2 - Failure of Classical Assumptions

(10 lectures)

Multi-collinearity and its implications - Auto-correlation: Consequences and Durbin-Watson

test- Heteroskedasticity: Consequences and the Goldfeld -Quandt test.

Module 3 - Forecasting

(10 lectures)

Forecasting with a) moving averages b) linear trend c) exponential trend- CAGR Forecasting

with linear regression- Classical time series decomposition- Measures of forecast

performance: Mean Square Error and Root Mean Square Error - Limitations of econometric

forecasts.

Linear programming - Dual of a linear programming problem - Simplex method Transportation.

- 1. Damodar N. Gujarati (2003). Basic Econometrics, McGraw-Hill, Delhi.
- 2. Kapoor V. K. (2011). *Operations Research Problems & Solutions*, Sultan Chand & sons.
- 3. Makridakis Spyros and Steven C Wheelright (2008). *Forecasting Methods and Applications*, Willey Publications.
- 4. Spiegel Murray (1989). Theory and Problems of Statistics, Schaum Outline Series.
- 5. Stock James H. and Watson Mark W. (2015). *Introduction to Econometrics*, Updated Third Edition, Global Edition, Pearson Education Limited.
- 6. Wooldridge Jeffery M. (2016). *Introduction to Econometrics: A Modern Approach*. Sixth Edition, Cengage Learning, USA.

T.Y.B.A

Name of the subject: Economics Paper VI B

Title of the paper: Development Theory and Experience

Paper Code: SIUAECO66B

Number of Credits: 3

Total No. of Lectures: 45

Objective – This is the second paper of economic development sequence. The course begins

with demographic concepts and their evolution during the process of development. Then it

focuses on the theory of migration and discusses the link between migration and development.

The structure of markets and contracts is linked to the particular problems of enforcement

experienced in poor countries. The course ends with the issues related to environment and

development

Module 1- Demography and Development

(12 lectures)

Demographic concepts; birth and death rates, age structure, fertility and mortality;

demographic transitions during the process of development; gender bias in preferences and

outcomes and evidence on unequal treatment within households; connections between income,

mortality, fertility choices and human capital accumulation.

Module 2 - Structural Transformation

(10 lectures)

The Lewis model —Clark-Fisher model of structural change, Urbanization: Trends and

Projections with reference to India, Urbanization and Development, Causes of urbanization,

Urban informal sector, Policies for the urban informal sector, Migration and development,

Economic theory of rural-urban migration: Harris-Todaro migration model

Role of Agriculture in Economic Development, Market Failure and Agriculture, The distribution of land ownership; Land reform and its effects on productivity; contractual relationships between tenants and landlords;. Land Acquisition; Nutrition and Labour Productivity; Rural Credit Market; Microfinance; Inter-linkages between Rural Factor Markets.

Module 4 - The Environment and Development

(10 lectures)

The core of environmental problems- Rural poverty and environmental destruction-industrialization and environmental pollution - Economic models of environmental issues: privately owned resources, common property resources, public goods: regional environmental degradation and the free rider problem, limitations of pubic goods framework.

- 1. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee (2006). *Understanding Poverty*, Oxford University Press.
- 2. Amartya Sen (2000). *Development as Freedom*, Oxford University Press.
- 3. Daron Acemoglu and James Robinson (2006). *Economic Origins of Dictatorship and Democracy*, Cambridge University Press.
- 4. Debraj Ray (2009). Development Economics, Oxford University Press, India.
- 5. Michael Todaro and Stephen Smith (2015). *Economic Development*, Eleventh Edition, Pearson.
- 6. Partha Dasgupta, Economics (2007). *A Very Short Introduction*, Oxford University Press.

SCHEME OF EXAMINATION

Examination will consist of internal and semester end divided as 40 marks for internal and 60 marks for Semester end.

Internal Assessment

Internal assessment of 40 marks will be divided as 20 marks for class test, 20 marks for assignment.

Semester End Examination

The pattern for Semester end paper of 60 marks will be as follows:

- Duration 2 hours for each paper.
- There shall be four questions each of 15 marks. All questions shall be compulsory.
- Questions may be subdivided into sub-questions a, b, c and students are expected to answer two out of three.

Questions	Modules	Marks
Q N 1	Module 1	15
Q N 2	Module 2	15
Q N 3	Module 3	15
Q N 4	Module 4	15