

Resolution Number: AC/II(23-24).2.RUA2

S. P. Mandali's
Ramnarain Ruia Autonomous College

(Affiliated to University of Mumbai)

Syllabus for
Program: BA (Economics)- TYBA



Program Code: RUAECO
(Credit Based Semester and Grading System
for academic year 2024-25)

GRADUATE ATTRIBUTES

GA	GA Description
	A student completing Bachelor’s Degree in Arts program (Humanities & Social Sciences) will be able to:
GA 1	Demonstrate understanding and skills of application of knowledge of historical and contemporary issues in the social and linguistic settings with a transdisciplinary perspective to make an informed judgement
GA 2	Analyse and evaluate theories of individual and social behaviour in the familiar contexts and extrapolate to unfamiliar contexts in order to resolve contemporary issues
GA 3	Effectively and ethically use concepts, vocabularies, methods and modern technologies in human sciences to make meaningful contribution in creation of information and its effective dissemination
GA 4	Explore critical issues, ideas, phenomena and debates to define problems or to formulate hypotheses; as well as analyze evidences to formulate an opinion, identify strategies, evaluate outcomes, draw conclusions and/or develop and implement solutions
GA 5	Demonstrate oral and written proficiency to analyse and synthesise information and apply a set of cognitive, affective, and behavioural skills to work individually and with diverse groups to foster personal growth and better appreciate the diverse social world in which we live
GA 6	Develop a clear understanding of social institutional structures, systems, procedures, and policies existing across cultures, and interpret, compare and contrast ideas in diverse social- cultural contexts, to engage reasonably with diverse groups
GA 7	React thoughtfully with emotional and moral competence to forms of expressive direct action and apply social strategies toward eradicating threats to a democratic society and a healthy planet
GA 8	Articulate and apply values, principles, and ideals to the current societal challenges by integrating management and leadership skills to enhance the quality of life in the civic community through actions that enrich individual lives and benefit the community
GA 9	Recognize and appreciate the diversity of human experience and thought, and apply intellect and creativity to contemporary scenario, to promote individual growth by practicing lifelong learning

PROGRAM OUTCOMES

PO	PO Description
	Students graduating with a BA degree in <u>Economics</u> will be able to
PO 1	Use the knowledge of economic history and/or the history of economic ideas for a comprehensive understanding of the current economic perspective or event
PO 2	Integrate other disciplinary perspectives with economic analysis to produce a critical assessment of a social problem
PO 3	Use relevant socio-political and economic data to gain insight into an economic relationship or behaviour
PO 4	Apply the concepts in economic theory to analyse any economic scenario
PO 5	Effectively express his/her opinion on an economic event, perspective or policy
PO 6	Creatively employ the insights gained to developing and disseminating constructs of newer economic ideas and policies
PO 7	Apply various quantitative and qualitative skills to analyse and forecast the behaviour of certain economic variables
PO 8	Recognize and appreciate the role various socio- economic, political and cultural institutions in interpreting, comparing and designing the economic policies

PROGRAM OUTLINE (ONLY FOR 2024-25)- TYBA

YEAR	SE ME ST ER	COURSE CODE	COURSE TITLE	CREDITS
TYBA	V	RUAECO501	Microeconomics-III	4
TYBA	V	RUAECO502	Growth & Development	4
TYBA	V	RUAECO503	Economic Thought	3.5
TYBA	V	RUAECO504A	Mathematics for Economics- I	4
(Two Options)	V	RUAECO504B	Research Methodology- I	4
TYBA	V	RUAECO505A	Econometrics- I	4
(Two Options)	V	RUAECO505B	Indian Financial System	4
TYBA	V	RUAECO506	Urban Development & Policy	3.5
TYBA	VI	RUAECO601	Macroeconomics-III	4
TYBA	VI	RUAECO602	International Economics: Theory & Policy	4
TYBA	VI	RUAECO603	Development Experience of Countries	3.5
TYBA	VI	RUAECO604A	Mathematics for Economics- II	4
(Two Options)	VI	RUAECO604B	Research Methodology- II	4
TYBA	VI	RUAECO605A	Econometrics- II	4
(Two Options)	VI	RUAECO605B	Behavioural Economics	4
TYBA-	VI	RUAECO506	Corporate Finance	3.5

Course Code: TYBA- RUAECO501

Course Title: Microeconomics- III

Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Understand the working of asset market
CO 2	Define an externality and a public good and explain the presence of externalities and public goods make markets inefficient
CO 3	Identify how individual economic agents make rational choices and know how to optimize the use of resources at hand
CO 4	Build a strong understanding into welfare outcomes of consumers and producers
CO 5	Think intuitively about economic problems and economic solutions at an intermediary level
CO 6	Analyze various government policies aimed at solving these inefficiencies.
CO 7	Apply the formal microeconomic principles they learned to real world issues
CO 8	Emphasize use of information in decision making

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO501		Microeconomics- III	4
	Unit I	General Equilibrium & Welfare Economics	1
		Partial vs. General Equilibrium analysis, General equilibrium of exchange & production, Marginal Conditions for Economic Efficiency & Pareto Optimality, Perfect Competition, Economic Efficiency & Equity	15 Lectures

		Welfare Economics, Utility Possibilities Frontiers, Changes in Social Welfare, Arrow's Impossibility Theorem,	
	Unit II	Externalities, Public Goods & Public Choice	1
		Externalities & Market Failure, Externalities & Property Rights, Free Riding, Voting, Tragedy of Commons Public & Merit goods, Nature & Provision of public goods, Meaning & importance of Public Choice theory, Public Choice process, Policy implications of Public Choice theory	15 Lectures
	Unit III	Choice under Uncertainty & Strategic Interaction	1
		Risk & Uncertainty in demand choices, Contingent Consumption, Utility Functions, Risk Aversion, Risk Spreading, Role of Stock Market, Measuring Risk, Equilibrium in a Market for Risky Assets Game Theory: A Payoff matrix, Nash Equilibrium, Mixed strategies, Prisoner's Dilemma, Repeated Games, Enforcing a Cartel, Games of Coordination, Competition, Commitment and Coexistence, Bargaining	15 Lectures
	Unit IV	Economics of Information	1
		The Economics of Search: Search Costs, Searching for the Lowest Price, The Asymmetric Information: The Asymmetric Information, Adverse Selection and the Market for Lemons, Market Signaling, The Problem of Moral Hazard, The Principal Agent problem, The Efficiency Wage Theory	15 Lectures

References:

1. Varian, Hal (2010) Intermediate Microeconomics: A Modern Approach, W. W. Norton & Company, New York, Eighth Edition
2. Mankiw, Gregory N (2015) Principles of Economics, Cengage Learning, Seventh Edition
3. Salvatore, Dominick (2006) Microeconomics: Theory and Applications, Oxford University Press, Fourth Edition

Modality of Assessment

Theory Examination Pattern:

A) Internal Assessment- 40%- 40 Marks

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester V

Course	RUAECO501		Grand Total
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	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO502
Course Title: Growth & Development
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Explain and appreciate the concepts related to economic growth and development
CO 2	Give multidimensional perspective on the process of economic development
CO 3	Develop an insight into the process of economic development
CO 4	Apply the formal growth principles they learned to real world issues
CO 5	Think intuitively about development issues of different regions
CO 6	Analyse major national and international issues and debates on development

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO502		Growth & Development	4
	Unit I	Economic Growth	1
		Angus Maddison Historical Data Project & Its Limitations Modern Theories of Economic Growth (Harrod-Domar, Lucas, Romer, Jeffrey Sachs) The Washington Consensus & Its Critics, Other Perspectives	15 Lectures
	Unit II	Poverty, Inequality & Development	1
		Demographic Transition, Microeconomic Household Theory of Fertility, Approaches to Population Policy Measurement of Poverty, Head-Count Index and Poverty Gap Indices, Policy Options for Alleviation of Poverty	15 Lectures

		Measurement of Income Inequality, Kuznets Inverted U Hypothesis, Impact of Inequality on Development Human Capital and its Role in Development, Health and Education, Structural Transformation, W A Lewis Model	
	Unit III	Governance & Development	1
		Principal Agent Problem to governance Market failure- role of governance Coase Theorem (Transaction cost approach), Williamson, North, Dixit-Olson Moral Hazard to institutions Geography vs. Trade vs. Institutions Regulation in India- IRDA, SEBI, RBI, Election Commission, Parliament	15 Lectures
	Unit IV	International Dimensions of Growth & Development	1
		Geopolitics and changing global economic order, Terrorism- Internal/ External and its Economic Implications, Migration, Protectionism vs. Globalization, Political Economy of oil & energy and water, Climate change	15 Lectures

References:

1. Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.
2. Ray Debraj (2009), Development Economics, Oxford University Press
3. Blanchard, Oliver; Macroeconomics (4th edition, 9th impression), Pearson education, New Delhi, India.
4. Robert Feenstra & Alan Taylor, *International Macroeconomics*, 2nd ed.

Modality of Assessment**Theory Examination Pattern:**

- A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester V

Course	RUAECO502			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO503

Course Title: Economic Thought

Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Demonstrate comprehensive knowledge and understanding of economic thought
CO 2	Appreciate influence of economic thought on economic policies
CO 3	Compare and evaluate different schools of economic thought
CO 4	Formulate coherent arguments and draw valid conclusions about economic concepts based on the understanding of evolution of economic ideas
CO 5	Highlight contemporary relevance of economic thought

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO503		Economic Thought	3.5
	Unit I	Smith, Ricardo & Marx	13 Lectures
		Smith: Division of labour, Trade and economic growth Ricardo: Theory of distribution, comparative advantage Marx: Fundamental contradictions in the capitalist system and periodic crisis- Neo capitalism. Socialism: different versions	
	Unit II	Neoclassical Economists & Keynesian Economics	13 Lectures

		A. Neoclassical Economists: Marshall and his methods, Pareto: welfare economics, Walras contribution to quantitative techniques B. Keynesian Economics: Overview of Keynesian Economics -Theoretical Outline of the General Theory – Resurgence in Keynesian thought after 2008 financial crisis	
	Unit III	Austrian Economics	13 Lectures
		Austrian Economics Böhm- Bawerk on capital and Interest- Hayek and the Theory of Business Cycles - Joseph Schumpeter on Competition, Dynamics, and Growth	
	Unit IV	Public Choice & Some prominent economic thinkers of the recent times	13 Lectures
		Public Choice: The New Political Economy: Public Choice and Regulation Some prominent economic thinkers of recent times (Introduction only): J. Stiglitz, Paul Krugman, Thomas Piketty, Daniel Kahneman. Amartya Sen, Jagdish Bhagwati (Indicative list)	

References:

1. Ekelund Robert B. and Herbert Robert F. (2013) A History of Economic Theory and Method, Waveland Press, Long Grove
2. Galbraith J K (1991), History of Economics, Penguin Books, London
3. Heilbroner, Robert (1999), The Worldly Philosophers, Simon & Schuster, New York
4. Hunt E.K. & M. Lautzenheiser (2011) History of Economic Thought, Routledge, New York
5. Schumpeter J.A. (1952) Ten Great Economists, Georgeallen & Unwin Ltd., London
6. Schumpeter J.A. (1954) History of Economic Analysis, Oxford University Press, New York
7. Yueh Linda (2018) The Great Economists, Viking, UK

Modality of Assessment

Theory Examination Pattern:

A) Internal Assessment- 40%- 40 Marks

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester V

Course	RUAECO503			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO504A
Course Title: Mathematics for Economics- I
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Understand different types of mathematical techniques that can be used for analysing economic variables
CO 2	Interpret economic theory on the basis of these mathematical tools
CO 3	Extensively apply calculus to Demand- Supply and Pricing

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO504A		Mathematics for Economics- I	4
	Unit I	Graphs, Equations, Limits and Continuity, Derivatives	1
		Microeconomic applications of equations and graphs Linear and non-linear relationships in economic analysis, Market demand and supply models, taxes, elasticity, The slope of a Curvilinear Function, Functions, Limits, Continuity, Derivatives, Rules of Differentiation, Increasing and decreasing function, Necessary and sufficient conditions for maxima and minima	15 Lectures
	Unit II	Derivatives and their Applications in various areas of Economic Analysis	1
		Higher order Derivatives, Optimization of economic function. Marginal Concept,	15 Lectures

		Relationship among Total Marginal and Average concept	
	Unit III	Techniques and Application of Partial Derivatives	1
		Functions of several variables and partial derivatives, Rules of Partial Differentiation, Second Order Partial Derivatives, Optimization of Multivariate Functions, Constraint optimization with Lagrange Multiplier, Significance of Lagrange Multiplier, Total and Partial Differentials, Total Derivatives, Implicit and Inverse function rules, Marginal Productivity, income and price elasticities of Demand Homogeneous Production Function and Returns to scale, Cobb Douglas Production Function	15 Lectures
	Unit IV	Calculus of Multivariable Functions in Economics	1
		Marginal productivity, Income Determination, Multipliers and Comparative Statics, Income and Cross Price Elasticities of Demand, Differentials and Incremental Changes, Constrained Optimization of Multivariable functions in Economics, Homogeneous Production Function, Returns to Scale, Optimization of Cobb Douglas Production Function	15 Lectures

References:

1. Dowling Edward T: Introduction to Mathematical Economics, Schaum Outline Series in Economics, Tata McGraw -Hill, New Delhi,2004
2. Lerner Joel J and P. Zima: Theory and Problems of Business Mathematics, McGraw Hill, New York, 1986.
3. Dowling Edward T: Theory and Problems of Mathematical Methods for Business and Economics, McGraw –Hill,1993

Modality of Assessment

Theory Examination Pattern:**A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks**Semester End Theory Examination:**

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern**Semester V**

Course	RUAECO504A			Grand Total
	Internal	External	Total	

Theory	40	60	100	100
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Ramnarain Ruia Autonomous College

Course Code: TYBA- RUAECO504B
Course Title: Research Methodology- I
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Understand the importance of Research
CO 2	Understand various steps involved in research
CO 3	Demonstrate ability to use different research tools
CO 4	Formulate research questions and research proposals
CO 5	Highlight issues involved in the economic research

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO504B		Research Methodology- I	4
	Unit I	Introduction to Concept of Research	1
		Nature, Scope & Purpose of social research, Basic assumptions of research, Significance of social sciences research, Objectivity in social sciences research Types of research: pure & applied research; formulative or exploratory research; descriptive research, historical research, experimental research, survey research Ethical issues relating to research Major Difficulties in the Area of economic research	15 Lectures
	Unit II	Elements of Research Methodology	1
		<u>Steps in Research process</u> : Identification, selection and formulation of research problem –	15 Lectures

		<p>sources of research problem – criteria of a good research problem</p> <p>Review of literature</p> <p>Formulation of hypothesis</p> <p>Preparing Research Design: Definition, Concepts, and types– exploratory, descriptive and diagnostic, experimental and Analytical research designs</p> <p>Collecting and analysing the data</p> <p>Interpretation and report writing</p> <p><u>Use of web search in research process-</u></p> <p>Introduction to Internet and WWW, Using search engine like Google, Yahoo etc- Use of advanced search techniques</p>	
	Unit III	Sources of Data for Research	1
		<p><u>Types of data sources:</u> Primary and Secondary, choice between primary and secondary data</p> <p>Primary data-Meaning and Collection methods- Observational method, Interview technique, Design of Schedule and Questionnaire, Survey method and Field Visits, Case Study as a method, Major Sources of Secondary data: Meaning, advantages, Relevance, limitations and cautions of secondary data.</p> <p><u>Sampling Technique:</u> Census and sample survey- Essentials of a good Sampling - Advantages and limitations of sampling</p> <p>Methods of sampling: <u>random sampling</u>: simple or unrestricted random sampling- mixed or stratified random sampling, systematic or quasi random sampling – multistage or cluster random sampling- sequential random sampling <u>non random sampling</u> : judgement or purposive sampling–convenience sampling- accidental sampling – quota sampling. Sampling and Non-</p>	15 Lectures

		sampling errors - Sample size – selecting an appropriate sampling technique	
	Unit IV	Processing and Analysis of Data	1
		Classification, Tabulation and Graphical presentation of socio-economic data An introduction to Statistical Analytical Tools – Measures of Central Tendency - Measures of Variation: absolute and relative measures – Quartile deviation, standard deviation, coefficient of variation- Skewness: meaning and Measurement (Karl Pearson's and Bowley's methods) <u>Preliminaries of Computer Applications in Data organization & Data Processing</u> Introduction to spreadsheet application, features and functions, Using formulas and functions, Data storing, Features for Statistical data analysis, Graphical representation of data, Generating charts/ graph and other features	15 Lectures

References:

1. Gopal, M.H (1970) An Introduction to Research Procedures in Social Sciences, Asia Publishing House, Mumbai
2. Kothari, C.R (2004) Research Methodology: An Introduction, Delhi, New Age
3. Krishnaswami, O.R & M. Ranganatham (2011) Methodology of Research in Social Sciences, Himalaya Publishing House, Mumbai.
4. Gupta S P (2017) Statistical Methods, Sultan Chand and Sons, New Delhi.
5. Gupta S.C, Fundamentals of Statistics, Himalaya Publication House, Bombay

Modality of Assessment**Theory Examination Pattern:****A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks

1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks**Semester End Theory Examination:**

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern**Semester V**

Course	RUAECO504B			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO505A

Course Title: Econometrics- I
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Understand the elementary concepts in econometrics
CO 2	Gain an understanding of basic econometric tools
CO 3	Understand how econometric techniques can be used for analyzing different economic variables, their interrelationships and models
CO 4	Apply these tools for empirical estimation of various economic theories

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO505A		Econometrics- I	4
	Unit I	Idea of a random variable	1
		<ul style="list-style-type: none"> • 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 	15 Lectures
	Unit II	Simple Linear Regression Analysis	1
		<ul style="list-style-type: none"> • Two variable regression model and calculating the OLS estimates • Classical assumptions of regression • Formal derivation of the OLS estimators, its expected values and variance 	15 Lectures

		<ul style="list-style-type: none"> • Properties of OLS estimators under classical assumptions, Gauss-Markov Theorem (without proof) • Performing a Simple Linear Regression in R and interpreting the results 	
	Unit III	Hypothesis Testing	1
		<ul style="list-style-type: none"> • 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 is unknown 	15 Lectures
	Unit IV	Multiple Linear Regression Model	1
		<ul style="list-style-type: none"> • Modelling for a Multiple Linear Regression, obtaining the OLS estimates and Interpreting the results of the OLS estimates • Violations in the assumptions in the Linear Regression model: Heteroscedasticity, Autocorrelation and Multicollinearity • Understanding the idea of Goodness of Fit (R square and Adjusted R square) • Performing Multiple Linear Regression in R and interpretation of the results – Understanding the idea of Fitted values and Residual values 	15 Lectures

References:

1. Gujarati D and Sangeeta, Basic Econometrics
2. Cameron Colin A. and Trivedi P K, Micro econometric Methods and Applications
3. Wooldridge J M Introductory Econometrics, A Modern Approach

Modality of Assessment

Theory Examination Pattern:

A) Internal Assessment- 40%- 40 Marks

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester V

Course	RUAECO505A		Grand Total
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	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO505B
Course Title: Indian Financial System
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Understand the nature and components of Indian financial system
CO 2	Understand the functioning of the financial institutions and markets
CO 3	Appreciate the latest reforms introduced in Indian financial system
CO 4	Understand the instruments to control credit in the economy
CO 5	Identify the existence and development of Non-banking Financial Companies
CO 6	Trace the role and progress of the Mutual funds industry and Financial Derivatives market in India
CO7	Analyse the conditions of financial markets and its impact on the economy

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO505B		Indian Financial System	4
	Unit I	Banking in India since 1990s	1
		Developments in the 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 1990s - Transmission Channels of Monetary policy.	15 Lectures
	Unit II	Money and Capital Markets in India	1
		Money Market: Components of organized money market– Reforms in the money market - Features of Indian Money Market.	15

		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.	
	Unit III	Non- Banking sector of the Financial System	1
		Non-Bank Finance Companies (NBFCs) in India and their progress- Developments in India's Insurance sector & product types– Progress of Mutual Funds industry in India- Credit Rating Agencies in India.	15
	Unit IV	Derivatives Market in India	1
		Meaning of derivatives – Participants in the Derivative Markets– Hedgers, Arbitrageurs and Speculators– Significance of Derivative Markets– types of financial derivatives: Forwards, Futures, Options and Swaps- Pricing of derivatives: Pricing of Futures and Pricing of Options- Derivatives trading in India	15 Lectures

References:

1. Bhole L M Financial Institutions AND Markets, McGraw Hill
2. Deodhar S B Abhyankar A Indian Financial System, Himalaya Publishers, ed VI
3. Pathak Bharati, Indian Financial System

Modality of Assessment**Theory Examination Pattern:****A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case	05

	studies/ seminars/presentation)	
	TOTAL	40

B) External Examination- 60%- 60 Marks**Semester End Theory Examination:**

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern**Semester V**

Course	RUAECO505B			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO506
Course Title: Urban Development & Policy
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Demonstrate an understanding into the underlying theories, propositions and issues that usually arise in studying an urban situation.
CO 2	Analyze and appreciate the policy concerns dealing with specific issues of urban areas

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO506		Urban Development & Policy	3
	Unit I	Urbanisation- Origin and Growth of Cities	13 Lectures
		Market Forces in the Development of Cities, Comparative Advantage, Agglomerative Economics in Production & other extensions, and Spatial Orientation, Economies of localization, Scale Economies and Zipf's Law, Location of Economic Activities, Location of firms, Households, Land use patterns and control, Classical models and modern reality, regulation land ceiling and rent control. Labour Markets– nature, informalisation. Migration, Urban poverty, Environment	
	Unit II	Urban Infrastructure & Development	13 Lectures
		Economics of Urban Infrastructure, Local Public Goods and Infrastructure: Nature of Local Public	

		Goods and Utility Pricing – water/sanitation, health and education. Power, Housing and Transportation infrastructure. Slums and rehabilitation – Urban infrastructure needs and finance	
	Unit III	Urban Governance	13 Lectures
		Municipal governments – sources of revenues (local taxes) and expenditure. Functions and budgets in a decentralized set up. Governance Issues – capacity building and the role of civil society	
	Unit IV	Urban Economy of India	13 Lectures
		Urban Demography-Urban Labour Market-Migration; Informal Economy-Urban Micro Finance- Urban Poverty- Human Development, Land Market, Clusters of Innovation	

References:

1. O'Sullivan, A., Urban Economics, McGraw-Hill Irwin, 2002 (BASIC TEXT All Modules)
2. Shukla, V., Urbanization and Economic Growth, Himalaya Publishers Pvt. Ltd., Mumbai, 1996 (Modules 1, 2)
3. Bahl, R and J. Linn, Urban Public Finance in Developing Countries, OUP (WB), 1992 (Modules 3, 4)
4. Ramachandran, R., Urban Economics and Urban Systems in India, OUP, 1989 (Module 1)

Modality of Assessment**Theory Examination Pattern:****A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/ Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case	05

	studies/ seminars/presentation)	
	TOTAL	40

B) External Examination- 60%- 60 Marks**Semester End Theory Examination:**

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern**Semester V**

Course	RUAECO506			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO601

Course Title: Macroeconomics- III

Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Demonstrate deeper understanding of macroeconomic principles
CO 2	Develop an understanding into the working of economies
CO 3	Analyze various government policies aiming to resolve macroeconomic issues
CO 4	Suggest appropriate macroeconomic measures to solve real world problems
CO 5	Exhibit an understanding into contemporary global economy

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO601		Macroeconomics- III	4
	Unit I	International Monetary History	1
		The Gold Standard, The Inter-War Period and the Great Depression, The Key Issues debated at Bretton Woods and the system that emerged as a result of those debates, The Collapse of Bretton Woods System, Fixing in Europe via ERM and the Dollar elsewhere, The Maastricht Treaty and preparations for the Euro, The Euro Crisis, Chinese Ambitions in Present Day	15 Lectures
	Unit II	Theory – Part 2	1
		Labour Market, Supply of labour, Unemployment, Natural Rate of Unemployment, Wage determination- collective bargaining, Efficiency wages, Price determination, The Phillips Curve: History &	15 Lectures

		Contemporary Debates, The Contributions of Friedman and Lucas	
	Unit III	Theory – Part 3	1
		Stagflation- Monetarism, Lucas Critique Rational Expectations Hypothesis and Intertemporal Optimization New Macroeconomics- New Keynesian Economics & Market Failures; Aggregate Fluctuations & Stabilization Policy, real business cycles & credibility of Monetary Policy, Walrasian/ Arrow- Debreu Model	15 Lectures
	Unit IV	The 2008 GFC & Contemporary Macro Debates	1
		New Growth Theory New Consensus Macroeconomics (NCM): Main features, Monetary Policy in NCM GFC- Around the world, India; Current issues: Schoenmaker Trilemma (Openness, Financial Stability & Autonomous Policy), International Financial Policy coordination, Questioning international capital movements, Bank-sovereign doom loop, Political Economy matters- Rodrik Trilemma (Democracy, national Policy Autonomy & Extensive Globalization), Quantitative Easing & Its impact	15 Lectures

References:

1. Blanchard, Oliver; Macroeconomics (4th edition, 9th impression), Pearson education, New Delhi, India.
2. Robert Feenstra & Alan Taylor, International Macroeconomics, Worth Publishers, 2nd ed.
3. https://oecd.tv.webtv-solution.com/4977/or/naec_meeting_10_years_after_the_crash.html
(For Unit IV Partly)

Modality of Assessment**Theory Examination Pattern:**

- A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester VI

Course	RUAECO601		Total	Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO602
Course Title: International Economics
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Develop an understanding of the fundamentals of international economic theory
CO 2	Appreciate the dynamics of global economic integration
CO 3	Understand the current trends of the global macro-economy and international relations
CO 4	Trace international movements of factors and the most relevant destinations
CO 5	Analyse trade policy tools and their effects

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO602		International Economics	4
	Unit I	Introduction	1
		(a) What is International Economics? An overview of world trade. (b) New trade theories of International Trade: Technological Gaps and Product Cycles; Linder's Theory of Trade; Emergence of intra-industry trade - Krugman's Model, Porter's National Competitive Advantage, Stolper-Samuelson theorem, Monopolistic competition and trade-firm heterogeneity	15 Lectures
	Unit II	International Flows	1
		Factors determining labour and capital mobility; challenges and issues in outsourcing;	15 Lectures

		Classification of International capital flows (ECBs, short term borrowings and lending, FDI, FPI); issues in international business- trade and environment, trade and labour issues; Global FDI trends and prospects, FDI and the global value chain	
	Unit III	Economics of Integration	1
		Objectives of Economic Integration; Forms; Theory of Customs Union-Trade Creation and Trade Diversion effects; Cartels; Regional Trade Agreements, Trade Blocs- ASEAN, SAARC; EU, Optimum Currency Area Theory, NAFTA, Regionalism Vs Multilateralism. International Institutions & India OECD, ADB, IMF, World Bank, WTO- Objectives & Functions, Performance wrt India	15 Lectures
	Unit IV	Trade Policy	1
		Case for Free trade and Protection; Tariffs- meaning and effects; Theory of Optimum Tariff; Non- Tariff Barriers and their effects- Export Subsidies, Import Quotas, Voluntary Export Restraint, Dumping and Commodity Agreements; Strategic Trade Policy.	15 Lectures

References:

1. Paul Krugman, Maurice Obstfeld, and Marc Melitz, *International Economics: Theory and Policy*, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.
2. Dominick Salvatore, *International Economics: Trade and Finance*, John Wiley International Student Edition, 11th edition, 2013.

Modality of Assessment**Theory Examination Pattern:**

A) Internal Assessment- 40%- 40 Marks

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester VI

Course	RUAECO602		Total	Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO603

Course Title: DEVELOPMENT EXPERIENCE OF COUNTRIES

Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Appreciate importance of learning economic history
CO 2	Analyse and compare functioning of different economies
CO 3	Demonstrate an understanding into the influence of socio-political factors on economic development

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO603		Development Experience of Countries	3.5
	Unit I	Germany	13 Lectures
		Effects of WW II-West and East Germany-The Marshall Plan (The Schuman Declaration (1950)- period of rapid growth-from boom to bust in the 1960s and 1970s-German Unification- prominent economic power in the European union- strengths and challenges at present	
	Unit II	South Korea	13 Lectures
		Effects of the Korean War-rapid growth 1960s- 1980s-The Asian Financial crisis of 1990s- development of High-tech industries- Sustainability of growth experience- strengths and challenges at present	

	Unit III	Brazil	13 Lectures
		Growth without equity- policy of import substitution- Public finance and Deficit-problem of hyperinflation- Market vs State intervention-external debt and failure to stabilize-strengths and challenges at present.	
	Unit IV	China	13 Lectures
		Communist revolution of 1949-Mao Regime: Great Leap Forward-major economic initiatives-China after 1978: Blending political dictatorship and market economy- miraculous economic progress- strengths and challenges at present	

References:

1. Acemoglu D & Robinson J (2013) Why Nations Fail, Profile Book Limited, London
2. Kapila Uma (2019) Indian Economy, Academic Foundation, New Delhi
3. Ministry of Finance, Government of India (2021) Economic Survey 2020-21 Vol. I & II Oxford University Press, New Delhi
4. Sharma Ruchir (2012) Breakout Nations, Allen Lane, London
5. Sharma Ruchir (2016) The Rise and Fall of Nations, Allen Lane, London
6. World Bank (2011) Globalisation and Emerging Economies, Blackwell Publications
7. Research papers, articles from various sources

Modality of Assessment**Theory Examination Pattern:****A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/ Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20

3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester VI

Course	RUAECO603			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO604A
Course Title: Mathematics for Economics- II
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Use different types of mathematical techniques that can be used for analysing economic variables, their interrelationships and economic theory
CO 2	Interpret economic theory on the basis of these mathematical tools

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO604A		Mathematics for Economics- II	4
	Unit I	Exponential and Logarithmic Function	1
		Properties of exponents and Logarithms, Natural Exponential and Logarithmic Function, Interest Compounding, Effective vs Nominal Rates of interest, Discounting	15 Lectures
	Unit II	Linear Algebra	1
		Matrices and basic operations on matrices, Rank of a Matrix, Cofactor and Adjoint Matrices, Inverse of a Matrix, Cramer's Rule, Input-output Analysis and policy implications, Determinants and their properties, Linear Programming problem: formulation and graphical solution	15 Lectures
	Unit III	Integral Calculus	1
		Integration and definite integral, area under the curve, Economic Application Present value of cash flows (present value of a sum to be received in future and present value of	15 Lectures

		a stream of future income), Consumer's and Producer's surplus, Learning curve	
	Unit IV	First Order Differential Equation, First Order Difference Equation	1
		General Formula for First Order Linear Differential Equations, Exact Differential Equation and Partial Integration, Rules for Integrating Factors, Separation of Variables, Economic Applications, General Formula for First Order Linear Difference Equation, Stability Conditions, Lagged Income Determination Model, The Cobweb Model	15 Lectures

References:

1. Dowling Edward T, Introduction to Mathematical Economics, Schaum Outline Series in Economics, Tata McGraw -Hill, New Delhi,2004
2. Lerner Joel J and P. Zima: Theory and Problems of Business Mathematics, McGraw Hill, New York, 1986.
3. Dowling Edward T: Theory and Problems of Mathematical Methods for Business and Economics, McGraw –Hill,1993
4. Pfitzner Barry C.: Mathematical Fundamentals of Microeconomics, biztantra, New Delhi, 2003.
5. Bose D. Mathematical Economics, Himalaya Publishing House, Mumbai,1996
6. Gupta S. P., Statistical Methods, S. Chand, New Delhi
7. Sancheti D.C. and V.K. Kapoor, Statistics-Theory, Methods and Applications, S. Chand, New Delhi

Modality of Assessment**Theory Examination Pattern:****A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15

2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester VI

Course	RUAECO604A			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO604B
Course Title: Research Methodology- II
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Understand various steps involved in research
CO 2	Develop their own research plan
CO 3	Carry out research independently

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO604B		Research Methodology- II	4
	Unit I	Statistical applications in research	1
		<ul style="list-style-type: none"> • Methods of studying Correlation- measurement of simple correlation: graphic method: scatter diagram- coefficient of correlation- Karl Pearson and rank correlation-interpretation of $r = \pm 1$ • Linear Regression Analysis: meaning, regression lines, regression coefficients, regression equations, relationship between correlation and regression • Analysis of Time Series – components –trend analysis- moving averages (3, 4 and 5 yearly) - method of least square 	15 Lectures
	Unit II	Elementary Probability Theory and Probability Distribution	1

		<ul style="list-style-type: none"> • Elementary Probability Theory • Concept of Discrete random Variable and properties of its probability distribution, some standard Discrete distribution • Concept of continuous random variable and properties of its probability distribution, some standard continuous distributions 	15 Lectures
	Unit III	Hypothesis formulation and Hypothesis Testing	1
		<ul style="list-style-type: none"> • Definition and functions of hypothesis –Criteria of workable hypothesis – forms and sources of hypothesis • Concepts in Testing of Hypothesis: Universe / Population, parameter and statistic, Null and Alternative Hypotheses, Levels of Significance, critical region, Type I and type II errors - Point and Interval Estimates 	15 Lectures
	Unit IV	Research Report Writing	1
		<p>Types of Research Report: Technical, Popular, Interim, Summary, Article</p> <ol style="list-style-type: none"> 1) Format of a Research Report 2) Principles of writing the Research Report: Organization and Style - Contents-Styles of reporting- Steps in drafting Reports- Editing the final draft-Evaluating the final draft - Organization of the Research Report: Preliminaries, Contents of Report, Structuring the Report: Chapter format- Pagination- Identification- Using quotations- Presenting footnotes– abbreviations- Presentation of tables and figures- Referencing- Documentation-Use and format of appendices- Indexing - Bibliography, Appendices 	15 Lectures

References:

1. Gopal, M.H (1970) An Introduction to Research Procedures in Social Sciences, Asia Publishing House, Mumbai
2. Kothari, C.R (2004) Research Methodology: An Introduction, Delhi, New Age
3. Krishnaswami, O. R & M. Ranganatham (2011) Methodology of Research in Social Sciences, Himalaya Publishing House, Mumbai
4. Gupta S P (2017) Statistical Methods, Sultan Chand and Sons, New Delhi

Modality of Assessment**Theory Examination Pattern:****A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks**Semester End Theory Examination:**

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I

Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester VI

Course	RUAECO604B			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO605A

Course Title: Econometrics- II

Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Learn advanced concepts in econometrics
CO 2	Gain an understanding of different econometric tools that can be used for empirical estimation of economic theory
CO 3	Apply these tools for empirical estimation with the help of softwares like R and STATA

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO605A		Econometrics- II	4
	Unit I	Advanced Topics in Regression	1
		<ul style="list-style-type: none"> Understanding the idea of Outliers– its implications and detection Understanding the idea of Endogeneity and the idea of Instrument Variable Bias Dummy Variables 	15 Lectures
	Unit II	Introduction to Time Series	1
		<ul style="list-style-type: none"> Understanding different kinds of data sets: Cross-section, Time Series and Panel Data sets Introducing the concept of Time Series data and how it is different from OLS Regression by giving brief introduction of Maximum Likelihood Estimation 	15 Lectures

		<ul style="list-style-type: none"> • Different Time Series Models: Linear Trend, Random Walk, AR Process • Idea of Stationarity and Non-stationarity • Test for Stationarity: Augmented Dickey Fuller Test • Introduction to ARIMA Modelling 	
	Unit III	Basic Regression Analysis with Time Series and Panel Data	1
		<ul style="list-style-type: none"> • Time Series Regression Models: Static Models, Finite Distributed Lag Models, • Pooling Independent Cross Section Across Time, • Fixed Effect Estimation: The Dummy Variable Regression, Fixed Effects or • First Differencing, Random Effect Models 	15 Lectures
	Unit IV	Simultaneous Equation Models and Distributed Lag Models	1
		<ul style="list-style-type: none"> • The Nature of Simultaneous Equation Models • Simultaneity Bias in OLS • Identifying and Estimating a Structural equation in Two, Three and More Equations <p>Project: Analysing Economic data sets from different sources and doing a project using the econometric tools studied throughout the course.</p>	15 Lectures

References:

1. Gujarati D and Sangeeta, Basic Econometrics
2. Cameron Colin A. and Trivedi P K, Microeconometrics Methods and Applications
3. Wooldridge J M Introductory Econometrics, A Modern Approach

Modality of Assessment

Theory Examination Pattern:

A) Internal Assessment- 40%- 40 Marks

Sr. No.	Evaluation type	Marks
1	One Assignment/Case study/ Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester VI

Course	RUAECO605A		Grand Total

	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO605B
Course Title: Behavioural Economics
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Get acquainted with the fundamentals of Behavioural Economics
CO 2	Understand the complexities of decision making and its application
CO 3	Study application of BE in different fields

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO605B		Behavioural Economics	4
	Unit I	Principles of Behavioural Economics – I	1
		History of Behavioural Economics – Need for behavioural principles in economics – Early work – Bounded Rationality – Allais Paradox – Prospect Theory (Loss Aversion, Endowment Effect) – Heuristics and Biases (Availability, Anchoring, Adjustment, Framing) – Intertemporal Choice (Self-control problem) – Reference Dependent Preferences	15 Lectures
	Unit II	Principles of Behavioural Economics – II	1
		Auctions (revenue equivalence theorem and practice) – Biases in Market Behaviour (equilibrium prices) – Consumer Psychology (Choice overload,	15

		option paralysis) – Subjective Well-being and Happiness – Mental Accounting – Social Preferences (inequity, fairness, trust) – Decision-making under uncertainty (risk aversion)	
	Unit III	Methods used in Behavioural Economics	1
		Theoretical methods vs. empirical methods – Theoretical studies in behavioural economics – applications of psychological principles – Experimental methods – Lab Experiments – Field Experiments – Natural Experiments – Policy Experiments – Critique of methods used	15
	Unit IV	Applications of Behavioural Economics	1
		Critique of behavioural economics – Applications in Policy (Education, Health, Development, Welfare) – Applications in Business and Corporates – Neuroeconomics – Nudging & Choice Architecture	15 Lectures

References:

1. Angner, Erik. *A Course in Behavioral Economics 2e*. Palgrave Macmillan, 2016.
2. Camerer, Colin F., George Loewenstein, and Matthew Rabin, eds. *Advances in behavioral economics*. Princeton university press, 2011.
3. Thaler, Richard, and Cass Sunstein. *Nudge: Improving decisions about health, wealth, and happiness*. Yale University Press, 2008.
4. Kahneman, Daniel. *Thinking, fast and slow*. Macmillan, 2011.
5. Ariely, Dan. *Predictably irrational*. New York: HarperCollins, 2009.
6. List, John, and Uri Gneezy. *The why axis: hidden motives and the undiscovered economics of everyday life*. Random House, 2014.

Modality of Assessment**Theory Examination Pattern:****A) Internal Assessment- 40%- 40 Marks**

Sr. No.	Evaluation type	Marks

1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks

Semester End Theory Examination:

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern

Semester VI

Course	RUAECO605B			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO606

Course Title: Corporate Finance

Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Understand the valuation process, various dividend theory and cost of capital models studied in financial management
CO 2	Understand and analyse the intermediary corporate financial parameters taken into consideration
CO 3	Decide the respective area of investment based on his acquired knowledge of the course

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits Lectures
RUAECO606		Corporate Finance	3.5
	Unit I	Valuation	13 Lectures
		i) Value and return Introduction, Time Preference for Money, Future Value: Single cash flows, Annuity, Sinking Fund Present Value: Single Cash FLOW, Annuity, Uneven Cash Flows Net Present Value: Present Value and Rate of Return, IRR Calculation ii) Portfolio Theory and Asset Pricing models Introduction, Portfolio Return: Two Asset Case Portfolio Risk Two Asset Case	

	Minimum Variance Portfolio: Portfolio Return and Risk Portfolio Risk: n Asset Case Risk Diversification Capital Asset Pricing Model (CAPM) Capitalization: over and under capitalization.	
Unit II	Investment Decisions	13 Lectures
	Capital Budgeting Decisions Introduction, NPV Net Present Value and Calculation of NPV Internal Rate of Return, Accounting Rate of Return Payback Period Method	
Unit III	Dividend Theory	13 Lectures
	Introduction Dividend Relevance: Walter's Model, Gordon's Model Dividend Irrelevance: Miller- Modigliani Hypothesis Relevance of Dividend Policy under Market Imperfections	
Unit IV	Cost of capital and capital structure	13 Lectures
	Capital Structure, Components of Capital. Determining components of Cost of Capital, Financial Leverage, Calculating Weighted Average Cost of Capital (WACC), Optimal capital structure	

Modality of Assessment

Theory Examination Pattern:

A) Internal Assessment- 40%- 40 Marks

Sr. No.	Evaluation type	Marks
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1	One Assignment/Case study/Project/ Presentation/ Skit/ Short film/ Poster/ Exhibition etc.	15
2	One class Test (multiple choice questions / objective)	20
3	Active participation in routine class instructional deliveries (case studies/ seminars/presentation)	05
	TOTAL	40

B) External Examination- 60%- 60 Marks**Semester End Theory Examination:**

1. Duration - These examinations shall be of **2 hours** duration.
2. Theory question paper pattern:
 - a. There shall be **four** questions each of **15** marks. On each unit there will be one question.
 - b. All questions shall be compulsory with internal choice within the questions.

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1) A) B) C)	Any 2 out of 3	15	Unit I
Q.2) A) B) C)	Any 2 out of 3	15	Unit II
Q.3) A) B) C)	Any 2 out of 3	15	Unit III
Q.4) A) B) C)	Any 2 out of 3	15	Unit IV
	TOTAL	60	

Overall Examination & Marks Distribution Pattern**Semester VI**

Course	RUAECO606			Grand Total
	Internal	External	Total	
Theory	40	60	100	100
