Resolution Number: AC/II(20-21).2.RUA2

S. P. Mandali's

Ramnarain Ruia Autonomous College

(Affiliated to University of Mumbai)

Syllabus for
Program: BA (Economics)

Program Code: RUAECO

(Credit Based Semester and Grading System

for academic year 2021-22)

External Examination- 60%- 60 Marks

Semester End Theory Examination: (Deviation from the usual modality)

Owing to the pandemic situation prevailing in 2020 and continuing in 2021, the external examinations (Semester End) may be conducted online as per the instructions/circulars received from the University of Mumbai and Maharashtra State notifications from time to time. The conventional mode of external examination will commence again only after the declaration of normalcy by the Government authorities.

PROGRAM OUTCOMES

PO	PO Description
	A student completing Bachelor's Degree in Arts program (Humanities & Social Sciences) will be able to:
PO 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
PO 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
PO 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
PO 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
PO 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
PO 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
PO 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
PO 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

PO 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 SPECIFIC OUTCOMES

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

PROGRAM OUTLINE

YEAR	SEMESTER	COURSE CODE	COURSE TITLE	CREDITS
FYBA/ FYBSc	I	RUAECO101/ RUSECO101	Microeconomics- I	BA- 3 BSc- 3
FYBA/ FYBSc	II	RUAECO201/ RUSECO201	Microeconomics- II	BA- 3 BSc- 3
SYBA/ FYBSc	BA- III BSc- I	RUAECO301/ RUSECO102	Macroeconomics- I	BA- 3 BSc- 3
SYBA	III	RUAECO302	Indian Economy: Contemporary Concerns (Economic Survey of the Government of India: 2020-2021)	3
SYBA/ FYBSc	BA- IV BSc- II	RUAECO401/ RUSECO202	Macroeconomics- II	BA- 3 BSc- 3
SYBA	IV	RUAECO402	Global Economy: Contemporary Concerns (World Development Report 2021)	3
SYBA- Applied Component	III	RUAACINV301	Investment Analysis- I	2
SYBA- Applied Component	IV	RUAACINV401	Investment Analysis- II	2
The students, under CBCS, can choose from four options for the Applied Component Course at SYBA- Investment Analysis/ Mass Communication/ Journalism/ Gandhism at Semesters III and IV.				
TYBA	V	RUAECO501	Microeconomics-III	4
TYBA	V	RUAECO502	Growth & Development	4
TYBA	V	RUAECO503	Economic Thought	3½

TYBA (Two Options)	V	RUAECO504A	Mathematics for Economics- I	4
	V	RUAECO504B	Research Methodology- I	4
TYBA (Two Options)	V	RUAECO505A	Econometrics- I	4
	V	RUAECO505B	Indian Financial System	4
TYBA	V	RUAECO506	Urban Development & Policy	3½
TYBA	VI	RUAECO601	Macroeconomics-III	4
TYBA	VI	RUAECO602	International Economics	4
TYBA	VI	RUAECO603	Development Experience of Countries	3½
TYBA (Two Options)	VI	RUAECO604A	Mathematics for Economics- II	4
	VI	RUAECO604B	Research Methodology- II	4
TYBA (Two Options)	VI	RUAECO605A	Econometrics- II	4
	VI	RUAECO605B	Behavioural Economics	4
TYBA-	VI	RUAECO506	Corporate Finance	3½

Course Code: FYBA- RUAECO101/ FYBSc- RUSECO101
Course Title: Microeconomics- I
Academic year 2021-22

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION After completing this course, a student will be able to
CO 1	Understand, explain and interpret the basic principles and elementary concepts in Microeconomics
CO 2	Use the concepts of Consumer Behaviour, Consumer's Equilibrium and Demand Elasticities to explain and interpret the consumer behaviour in real life situations
CO 3	Use these concepts to understand the relevance of Microeconomics to the economic policies which impact and shape the consumer behaviour
CO 4	Understand analyse and apply the introductory Microeconomic theory in a local, regional, national and international perspective

DETAILED SYLLABUS

Course Code/ Unit	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO101 RUSECO101		Microeconomics- I Microeconomics- I	4 3
	Unit I	Ten Principles of Economics and Economic Methods	1
		A) 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	15 Lectures (FYBA) 11 Lectures (FYBSc)

		and Unemployment Trade-off. (To be explained with simple examples.) B) Positive Economics and Normative economics, Basics of graphs (graph of single variable, graph of two variables, curves in the co-ordinate system, slope- cause and effect), Concepts of Function & Derivative. Concept of equilibrium Measures of Dispersion, Correlation, Linear Regression	
	Unit II	**Consumer Behaviour and Demand**	1
		Utility Analysis: TU, MU, Cardinal, Ordinal Utility, Estimation of utility function Consumer's Tastes: Indifference Curves Characteristics of Indifference curves, MRS. Some special types of Indifference curves The Consumer's income and price constraints, Consumer's choice	**15 Lectures (FYBA) 12 Lectures (FYBSc)**
	Unit III	**Consumer Behaviour and Individual Demand**	1
		Changes in Income-ICC - Engel's curve, Changes in Price, Price effect, Substitution effect, Income effect	**15 Lectures (FYBA) 11 Lectures (FYBSc)**
	Unit IV	**Theory of Revealed Preference, Market Demand and elasticities**	1
		Theory of Revealed Preferences Market demand for a commodity, Price elasticity of market demand, Income elasticity of demand, cross elasticity of demand	**15 Lectures (FYBA) 11 Lectures (FYBSc)**

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

FYBA/ FYBSC- Semester I

Course	RUAECO101/ RUSECO101			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: FYBA- RUAECO201/ FYBSc- RUSECO201
Course Title: Microeconomics- II
Academic year 2021-22

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION After completing this course, a student will be able to
CO 1	Understand, explain and interpret the basic principles and elementary concepts in Microeconomics
CO 2	Use the concepts of Production, Cost, Revenue and Output analysis along with the understanding of Producer's Behaviour & Producer's Equilibrium in real life situations
CO 3	Develop an understanding into functioning of the supply side and market structures prevailing in an economy
CO 4	Build on these concepts in the future to develop a deeper understanding into the market economy
CO 5	Distinguish and explain how competitive markets organise the allocation of scarce resources and the distribution of goods and services.
CO 6	Apply course knowledge to analyse the cost of choices and trade-offs that a society or micro unit confronts.
CO 7	Understand analyse and apply the introductory Microeconomic theory in a local, regional, national and international perspective
CO 8	Use these concepts to understand the relevance of Microeconomics to the economic policies which impact and shape the producer's behaviour

DETAILED SYLLABUS

Course Code/ Unit	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO201 RUSECO201		Microeconomics- II Microeconomics- II	4 3
	Unit I	Production & Costs	1

		Production function- fixed & variable proportions, Production with one variable input, with two variable inputs- isoquants, Derivation of total product curve, Returns to scale Costs in short run & long run, Expansion path & cost curves	**15 Lectures (FYBA) 11 Lectures (FYBSc)**
	Unit II	**Price, output Determination & Profit Maximisation- I**	**1**
		Perfect Competition- Total approach & Marginal approach to profit maximization, Short- run supply curve and Equilibrium of a firm, Long- run supply curve and Equilibrium of a firm & industry, Producer's Surplus Pure Monopoly- Sources of Monopoly, Short- run Equilibrium price & output, Long- run Equilibrium of price & output, Price Discrimination, Dumping	**15 Lectures (FYBA) 12 Lectures (FYBSc)**
	Unit III	**Price, output Determination & Profit Maximisation- II**	**1**
		Monopolistic Competition- many sellers of a differentiated product, Price & output decisions under Monopolistic Competition, Product variation & selling expenses Oligopoly- interdependence among a few producers, Cournot Model	**15 Lectures (FYBA) 11 Lectures (FYBSc)**
	Unit IV	**Distribution Theory, & Factor Pricing**	**1**
		Distribution Theory, Pricing & Employment of an input- market demand and supply determination, Marginal Productivity Theory, Monopsony pricing & employment of inputs Pricing methods- Cost-plus pricing, Mark-up pricing, Limit pricing, Peak- load pricing	**15 Lectures (FYBA) 11 Lectures (FYBSc)**

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:
   b. There shall be **four** questions each of **15** marks. On each unit there will be one question.
   c. 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
FYBA/ FYBSc- Semester II

Course	RUAECO201/ RUSECO201			Grand Total
	Internal	External	Total	
Theory	40	60	100	100

Course Code: SYBA- RUAECO301/ FYBSc- RUSECO102

Course Title: Macroeconomics- I

Academic year 2021-22

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION After completing this course, a student will be able to
CO 1	Understand fundamental concepts of Macroeconomics
CO 2	Build on the understanding of basic macroeconomic identity
CO 3	Understand how interest rate and income level are determined in an economy and how policies may affect these outcomes
CO 4	Demonstrate their knowledge of macroeconomic concepts and theories by their application to the real world issues

DETAILED SYLLABUS

Course Code/ Unit	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO301 RUSECO102		Macroeconomics- I Macroeconomics- I	4 3
	Unit I	**National Income & Employment**	1
		Gross Domestic Product, Methods of Computing GDP, Problems of GDP Measurement, National Income Accounting in India, Real vs. Nominal GDP, GDP Deflator, Measurement of Cost of Living	**15 Lectures (SYBA)** **11 Lectures (FYBSc)**
	Unit II	**Goods & Financial Markets (The IS- LM Model)**	1
		Determination of Equilibrium Output- Classical & Keynesian Theory of Employment, Multiplier Derivation of IS & LM Curves, Monetary & Fiscal Policy	**15 Lectures (SYBA)**

			12 Lectures (FYBSc)
	Unit III	**Money**	1
		The Nature of Money, Money Supply, Monetary Policy & Its Limitations, Monetary Policy Regimes- The Case of India	15 Lectures (SYBA)
		Demand for money- theories, Determination of interest rates, Real & Nominal Interest rates	11 Lectures (FYBSc)
	Unit IV	**Financial Sector**	1
		Banks & Financial System, Financial Markets & Institutions, Asset Pricing: Bonds/ Stocks/ Derivatives, How Financial Markets Work, The Link from Financial Markets to the Real Economy, Financial Crises	15 Lectures (SYBA)
			11 Lectures (FYBSc)

References:

1. D'souza, Errol, Macroeconomics (2008), Pearson education, New Delhi, India.
2. Blanchard, Oliver; Macroeconomics (4th edition, 9th impression), Pearson education, New Delhi, India.
3. Robert Feenstra & Alan Taylor, International Macroeconomics, Worth Publishers, 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

SYBA- Semester III

FYBSc- Semester I

Course	RUAECO301/ RUSECO102			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: SYBA- RUAECO401/ FYBSc- RUSECO202
Course Title: Macroeconomics- II
Academic year 2021-22

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION After completing this course, a student will be able to
CO 1	Understand fundamental concepts of Macroeconomics
CO 2	Understand how the external sector of the economy functions
CO 3	Connect these concepts/ theories to the real world issues
CO 4	They will be able to demonstrate their knowledge of macroeconomic concepts and theories

DETAILED SYLLABUS

Course Code/ Unit	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO401 RUSECO202		Macroeconomics- II Macroeconomics- II	4 3
	Unit I	Theory- Part 1	1
		Micro foundations and Macro Theory, Solow on Growth Economic Growth around the world, Productivity- determinants, Savings & Investment, Inflation- Types, causes, measures	15 Lectures (SYBA) 11 Lectures (FYBSc)
	Unit II	Government	1
		The Role of Government, The Government Accounts (IMF Statistics Manual), Deficit Financing, Public Debt Sustainability- Public debt and Fiscal management in India	15 Lectures (SYBA)

			12 Lectures (FYBSc)
	Unit III	**The External Sector – Part 1**	1
		Determination of Exchange Rates, Exchange Rates: Nominal and Real, Flexible versus Fixed Exchange Rates as Asset Prices: Uncovered and Covered Interest Parity, Exchange rate risk-Management External Sector Data Sources and Measurement	15 Lectures (SYBA) 11 Lectures (FYBSc)
	Unit IV	**The External Sector – Part 2**	1
		Balance of Payments- Composition & equilibrium, National Income Accounting and Balance of Payments, BOP equilibrium & Exchange rate, A Look at the Data (IMF), IS-LM in an open economy (Mundell-Fleming model)- Choice of Exchange Rate Regime Optimal Currency Areas and the Case of the Eurozone, Exchange Rate Crises	15 Lectures (SYBA) 11 Lectures (FYBSc)

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.

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

SYBA- Semester IV

FYBSC- Semester II

Course	RUAECO401/ RUSECO202			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: SYBA- RUAECO302
Course Title: Indian Economy: Contemporary Concerns
(Economic Survey of the Government of India: 2010-21)
Academic year 2021-22

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Demonstrate understanding of the functioning of and contemporary issues in Indian Economy
CO 2	Evaluate different policies related to the Indian Economy
CO 3	Enquire and engage into the future trends in Indian economy

DETAILED SYLLABUS

Course Code/ Unit	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO302		**Indian Economy: Contemporary Concerns (Economic Survey of the Government of India: 2020-21)**	4
	Unit I	**Overview of Indian economy (1947-1991)**	1
		Colonial Legacy-Mixed Economy-Five Year Plans-Inward looking Policy -Industrial Policy-Green Revolution-Oil Shocks	**15 Lectures**
	Unit II	**Savings lives and livelihoods; India's sovereign credit rating**	1
		Saving lives and livelihoods amidst a Once-in-a-Century Crisis	**15 Lectures**

		COVID-19: Once in A Century 'Crisis'; Research-Driven Policy Response amidst Unprecedented Uncertainty; India's Humane Policy Response: Short-Term Pain, Long-Term Gain; Efficacy of Initial Lockdown in Controlling the Pandemic; India: Riding Against the Wave; V-Shaped Economic Recovery Due to Timely Stringent Lockdown; Far-Sighted Policy Response for Economic Recovery; Looking Forward **Does India's Sovereign Credit Rating Reflect Its Fundamentals?** The Bias Against Emerging Giants in Sovereign Credit Ratings; India's Sovereign Credit Ratings; Does India's Sovereign Credit Rating Reflect its Fundamentals? Have India's Sovereign Credit Ratings Reflected its Fundamentals in the Past? Does India's Sovereign Credit Rating Reflect its Willingness and Ability to Pay? Effect of Sovereign Credit Rating Changes on Select Indicators; Macroeconomic Indicators as Determinants of Sovereign Credit Rating Changes; Policy Implications	
	Unit III	**Process reforms; Regulatory forbearance an emergency medicine**	**1**
		Process Reforms The Problem of Regulatory Effectiveness; The Inevitability of Incomplete Regulations; The Problem of Regulatory Default; Solving for Discretion; Direction of Administrative Process Reforms	**15 Lectures**

		Regulatory Forbearance an emergency medicine, not staple diet! Introduction; The Original Sin: The Seven-Year Forbearance! Cost of Extended Forbearance Versus Early Resolution of Banking Crises: International Evidence; Adverse Impact of Forbearance on Bank Performance and Lending; Bank Clean-Up Without Adequate Capitalization; Implications for the Current Forbearance Regime	
	Unit IV	**Inequality and growth; innovation: trending up but needs thrust**	**1**
		Inequality and growth: conflict or convergence? Introduction; Growth, Inequality, and Socio-Economic Outcomes: India Versus the Advanced Economies; Is Perfect Equality Optimal? Inequality or Poverty? Relative Impact of Economic Growth and Inequality on Poverty in India; Summary and Conclusions **Innovation: trending up but needs thrust, especially from the private sector** Why Innovation Matters; How Does India Perform on Innovation? India's Innovation Performance vis-à-vis Top Ten Economies; Trends in India's Innovation Performance; R&D Expenditure in India; India's Performance on Patents and Trademarks; Is Indian Innovation Affected by Access to Finance? Is India Effectively Translating Innovation Inputs into Innovation Outputs? Policy Implications	**15 Lectures**

References:

1. Economic Survey 2020-21, Government of India
2. Tirthankar Roy, The Economic History of India 1857-1947 (3rd edition, 2011), Oxford University Press
3. Uma Kapila Indian Economy (20th edition,2019-20)

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:

3. Duration - These examinations shall be of **2 hours** duration.
4. 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 III

Course	RUAECO302			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: SYBA- RUAECO402
Course Title: Global Economy: Contemporary Concerns
(World Development Report 2021)
Academic year 2021-22

COURSE OUTCOMES:

COURSE OUTCOME	CO DESCRIPTION
	After completing this course, a student will be able to
CO 1	Demonstrate an understanding of functioning of and contemporary issues in the Global Economy
CO 2	Evaluate different policies practiced in Global Economy
CO 3	Extrapolate India's position in the Global context
CO 4	Estimate basic future trends in the Global Economy

DETAILED SYLLABUS

Course Code/ Unit	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO402		**Global Economy: Contemporary Concerns (World Development Report 2020)**	4
	Unit I	**Meaning of Development**	1
		Development and related concepts: economic growth, economic development, human development, sustainable development, Sen's views on development, Measurement: Income indicators and their limitations, Human Development Index, Gender-related Development Index. Concept of Inclusive growth	15 Lectures
	Unit II	**India as an Emerging Economy**	1
		New Economic Policy of 1991- Rapid Economic Growth- Role of Tertiary Sector-Regional Diversity	15 Lectures

		-strengths and challenges at present, The Case of India ~~(Vijay Joshi)~~	
	Unit III	**WDR- I- Overview, Chapter**	**1**
		Overview Chapter 1: Harnessing the value of data for the poor Chapter 9: Creating an integrated national data system	**15 Lectures**
	Unit IV	**WDR- II- Chapter**	**1**
		Chapter 2: Data as a force for public good Chapter 3: Data as a resource for the private sector Chapter 8: Institutions for data governance: Building trust through collective action	**15 Lectures**

References:

1. World Development Report, June 2021, World Bank
2. Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.
3. Uma Kapila Indian Economy (20th edition,2019-20)

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:
   d. There shall be **four** questions each of **15** marks. On each unit there will be one question.
   e. 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 IV

Course	RUAECO402			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: TYBA- RUAECO501
Course Title: Microeconomics- III
Academic year 2021-22

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	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
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: TYBA- RUAECO502
Course Title: Growth & Development
Academic year 2021-22

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 multi-dimensional 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	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, Jeffry 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	**15 Lectures**

		Measurement of Poverty, Head-Count Index and Poverty Gap Indices, Policy Options for Alleviation of Poverty Measurement of Income Inequality, ~~Economic Growth and Income Inequality~~ Kuznet's 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 2021-22

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	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO503		**Economic Thought**	**4**
	Unit I	**Smith, Ricardo & Marx**	**1**
		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	**15 Lectures**
	Unit II	**Neoclassical Economists & Keynesian Economics**	**1**

		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	**15 Lectures**
	Unit III	**Austrian Economics**	1
		Austrian Economics Böhm- Bawerk on capital and Interest- Hayek and the Theory of Business Cycles - Joseph Schumpeter on Competition, Dynamics, and Growth	**15 Lectures**
	Unit IV	**Public Choice & Some prominent economic thinkers of the recent times**	1
		Public Choice: The New Political Economy: Public Choice and Regulation **Some prominent economic thinkers of the recent times (Introduction only):** J. Stiglitz, Paul Krugman, Thomas Piketty, Daniel Kahneman. Amartya Sen, Jagadish Bhagwati (Indicative list)	**15 Lectures**

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 2021-22

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	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 **Derivatives and their applications in various areas of Economic Analysis:** Functions, Limits, Continuity, Derivatives,Rules of Differentiation, Higher order Derivatives, Increasing and decreasing function, Necessary and sufficient conditions for maxima and minima, Optimization of economic function.	**15 Lectures**

	Unit II	**Derivatives and their Applications in various areas of Economic Analysis**	1
		Higher order Derivatives, Increasing and decreasing function, Concavity and convexity, Necessary and sufficient conditions for maxima and minima, Optimization of economic function, Marginal Concept, Relationship among Total Marginal and Average concept	**15 Lectures**
	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

Course Code: TYBA- RUAECO504B
Course Title: Research Methodology- I
Academic year 2021-22

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	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
		Steps in Research process: Identification, selection and formulation of research problem –	15 Lectures

		sources of research problem – criteria of a good research problem Review of literature Formulation of hypothesis Preparing Research Design: Definition, Concepts, and types– exploratory, descriptive and diagnostic, experimental and Analytical research designs Collecting and analysing the data Interpretation and report writing <u>Use of web search in research process</u>- Introduction to Internet and WWW, Using search engine like Google, Yahoo etc- Use of advanced search techniques	
	Unit III	**Sources of Data for Research**	**1**
		<u>Types of data sources:</u> Primary and Secondary, choice between primary and secondary data 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. <u>Sampling Technique:</u> Census and sample survey- Essentials of a good Sampling - Advantages and limitations of sampling 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	**15 Lectures**

		sampling–convenience sampling- accidental sampling – quota sampling. Sampling and Non-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.

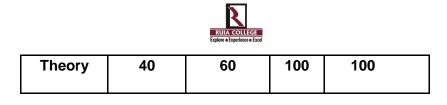   b. All questions shall be compulsory with internal choice within the questions.

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 2021-22

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	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO505A		**Econometrics- I**	**4**
	Unit I	**Idea of a random variable**	**1**
		• 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**
		• Two variable regression model and calculating the OLS estimates • Classical assumptions of regression	**15 Lectures**

		• Formal derivation of the OLS estimators, its expected values and variance • 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**
		• 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	**15 Lectures**
	Unit IV	**Multiple Linear Regression Model**	**1**
		● 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
	Internal	External	Total	
Theory	40	60	100	100

Course Code: TYBA- RUAECO505B
Course Title: Indian Financial System
Academic year 2021-22

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	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO505B		**Indian Financial System**	**4**
	Unit I	**Banking in India since 1990s**	**1**
		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 since1990s - 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. 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.	**15**
	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– 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, Arbitragers 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 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	RUAECO505B			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: TYBA- RUAECO506
Course Title: Urban Development & Policy
Academic year 2021-22

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	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO506		**Urban Development & Policy**	**4**
	Unit I	**Urbanisation- Origin and Growth of Cities**	**1**
		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	**15 Lectures**
	Unit II	**Urban Infrastructure & Development**	**1**
		Economics of Urban Infrastructure, Local Public Goods and Infrastructure: Nature of Local	**15 Lectures**

		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**	**1**
		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	**15 Lectures**
	Unit IV	**Urban Economy of India**	**1**
		Urban Demography-Urban Labour Market-Migration; Informal Economy-Urban Micro Finance-Urban Poverty-Human Development, Land Market, Clusters of Innovation	**15 Lectures**

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

Course Code: TYBA- RUAECO601
Course Title: Macroeconomics- III
Academic year 2021-22

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	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	**15 Lectures**

		determination- collective bargaining, Efficiency wages, Price determination, The Phillips Curve: History & 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 GFC- Around the world, India; New Consensus Macroeconomics (NCM): Main features, Monetary Policy in NCM	**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.

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			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: TYBA- RUAECO602
Course Title: International Economics
Academic year 2021-22

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	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; 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	**15 Lectures**
	Unit III	**Economics of Integration**	1
		Forms; Objectives of Economic Integration; Theory of Customs Union-Trade Creation and Trade Diversion effects; Cartels; Regional Trade Agreements, Trade Blocs- ASEAN, EU, Optimum Currency Area Theory, NAFTA, SAARC; Regionalism Vs Multilateralism.	**15 Lectures**
	Unit IV	**International Institutions & India**	1
		OECD, ADB, IMF, World Bank, WTO- Objectives & Functions, Performance wrt India	**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			Grand Total
	Internal	**External**	**Total**	
Theory	**40**	**60**	**100**	**100**

Course Code: TYBA- RUAECO603
Course Title: DEVELOPMENT EXPERIENCE OF COUNTRIES
Academic year 2021-22

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	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO603		**Development Experience of Countries**	**4**
	Unit I	**Germany**	**1**
		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	**15 Lectures**
	Unit II	**South Korea**	**1**
		Effects of the Korean War-rapid growth 1960s-1980s-The Asian Financial crisis of 1990s-development of High-tech industries-	**15 Lectures**

		Sustainability of growth experience- strengths and challenges at present	
	Unit III	**Brazil**	1
		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.	**15 Lectures**
	Unit IV	**China**	1
		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	**15 Lectures**

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 2021-22

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	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	**15 Lectures**

	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**

(of a stream of future income), Consumer's and Producer's surplus, Learning curve

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 2021-22

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	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO604B		Research Methodology- II	4
	Unit I	Statistical applications in research	1
		● Methods of studying Correlation- measurement of simple correlation: graphic method: scatter diagram - coefficient of correlation- Karl Pearson and rank correlation-interpretation of r = ± 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	Index numbers	1
		Meaning– classification– problems encountered while constructing index numbers- uses and limitation of index numbers Methods of constructing index numbers:	15 Lectures

		● Simple index: i) aggregate method ii) simple average of relatives method ● Weighted index: Laspeyer's, Paache's and Fisher's index– weighted average of relatives method ● Chain based index– concepts of Base shifting, splicing, and deflating ● Consumer price index: meaning, need and construction methods: aggregate expenditure method and family budget method	
	Unit III	**Hypothesis formulation and Hypothesis Testing**	**1**
		● 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**
		Types of Research Report: Technical, Popular, Interim, Summary, Article 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-	**15 Lectures**

		Presenting footnotes– abbreviations- Presentation of tables and figures- Referencing- Documentation-Use and format of appendices- Indexing - Bibliography, Appendices	

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 2021-22

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	Unit	Course/ Unit Title	Credits/ Lectures
RUAECO605A		Econometrics- II	4
	Unit I	Advanced Topics in Regression	1
		● 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
		● 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

		● 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
		● 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
		● The Nature of Simultaneous Equation Models ● Simultaneity Bias in OLS ● Identifying and Estimating a Structural equation in Two, Three and More Equations **Project:** Analysing Economic data sets from different sources and doing a project using the econometric tools studied throughout the course. Can be done in Excel, R, Eviews, Stata	**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 2021-22

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	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, option paralysis) – Subjective Well-being and Happiness – Mental Accounting – Social Preferences (inequity, fairness, trust) –	15

		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 2021-22

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	I	**Valuation** 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	15

		Capital Asset Pricing Model (CAPM)	
		Capitalization : over and under capitalization.	
	II	**Investment Decisions**	**15**
		1 Capital Budgeting Decisions	
		Introduction, NPV Net Present Value and Calculation of NPV	
		Internal Rate of Return, Accounting Rate of Return	
		Payback Period Method	
	III	**Dividend Theory**	**15**
		Introduction	
		Dividend Relevance: Walter's Model, Gorden's Model	
		Dividend Irrelevance: Miller- Modigliani Hypothesis	
		Relevance of Dividend Policy under Market Imperfections	
	IV	**Cost of capital and capital structure**	
		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
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**