Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College Vashi, Navi Mumbai

Autonomous College

[University of Mumbai]

Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of Course	MA I
2	Eligibility for Admission	Undergraduate Degree In Economics
3	Passing Marks	40%
4	Ordinances/Regulations (if any)	
5	No. of Years/Semesters	One year/Two semesters
6	Level	P.G.
7	Pattern	Semester
8	Status	New
9	To be implemented from Academic year	2022-2023

AC- 25/10/ 2021

Item No-7.11

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI.
NAVI MUMBAI
Sector-15- A, Vashi, Navi Mumbai - 400 703

(**AUTONOMOUS COLLEGE**)
Syllabus for Economics
Program: BA.
Course: Undergraduate Economics

(Choice Based Credit System with effect from the academic year 2022-2023)

Preamble of the Syllabus:

Bachelor of Arts (Economic) is a under graduation programme of Department of Economics, Karmaveer Bhaurao Patil College Vashi, Navi Mumbai [Autonomous College]

The Choice Based Credit and Grading System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of Economics. The conceptual understanding, development of experimental skills, developing the aptitude for academic and professional skills, acquiring basic concepts and understanding of hyphenated techniques are among such important aspects.

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI.
NAVI MUMBAI (Autonomous)
Department of Economics
BA Economics

Program Outcomes (POs)

Learners are able to–

PO-1	**Disciplinary Knowledge**	Build conceptual foundation and application skills in the area of Economics, English Literature, Geography, Psychology, and Philosophy seeking youth fit for employment as well as making appropriate/ rational decisions in their day-to-day personal and public life.
PO-2	**Communication Skills**	Communicate effectively in Marathi, Hindi, and English to make meaning of the world by connecting people, ideas, books, media, and technology
PO-3	**Critical Thinking**	Develop critical thinking towards current economic, social, cultural, philosophical, psychological, and environmental issues, to deal with impediments/hurdles in life with courage and a positive perspective.
PO-4	**Social Interaction and Social Justice**	Elicit views of others, mediate disagreements and help to reach conclusions in the group, and contribute to social justice and inclusive growth.
PO-5	**Responsible Citizens**	Inculcate human values, sense of social service, egalitarian, righteous conduct for self, family society and make responsible and dutiful citizens
PO-6	**Ethics**	Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO-7	**Research Skills**	Identify the problems in different areas, select and execute appropriate research methodology, conduct research, write a meaningful report, and communicate it to the stakeholders.
PO-8	**Self-directed and Life-long Learning**	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-cultural and technological changes.
PO-9	**Environment and Sustainability**	Understand the issues of environmental contexts along with awareness, needs, growth, and efforts taken at the national and international level through MDGs, SDGs, and other related policies

		for sustainable development.

Program Specific Outcomes (PSOs)		
PSO1	**Knowledge of Economic System**	Understand economic problems, concepts, theories, policies, functioning of the economy and relations with rest of the world
PSO2	**Acquaint Demographic Features**	Variables, concepts, concerned policies and measures, tools and techniques for measuring different variables, related issues and future prospects.
PSO3	**Research and Statistical Analysis Skills**	Collection, organization, tabulation, coding, and analysis of empirical data. Its analysis interpretation and policy implications, report writing and presentation.
PSO4	**Know Indian Economy**	Structure, features, basic issues specially agriculture, industry, service sectors and latest developments.
PSO5	**Determine Economic Variables**	Inflation, unemployment, poverty, GDP, Balance of Payments, Foreign exchange rate etc
PSO6	**Entrepreneur Skill**	Enhancing skills required to be entrepreneur, know Government policies and financial sources available, principles and expectations of stakeholders.
PSO7	**Aspects of International Trade**	Theories, related concepts, composition, trends, policies, trading partners of India and economic relations with other countries.
PSO8	**Financial Roles and Responsibilities of the Government**	Constitutional provisions of taxes, changes, canons, effects, principles of expenditure and maximum social advantages of the society.

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI.
NAVI MUMBAI (Autonomous)
(w.e.f. academic year 2021-22)

Semester-I

Course Code	Course Name	Teaching Scheme (Hours/ Week)	Examination Scheme and Marks			Credit Scheme
		Lecture	CIE	Sem End-Exam	Total	
		4	40	60	100	
PGBECO101	Microeconomic Analysis-I	04	40	60	100	06
PGBECO102	Macroeconomic Analysis-I	04	40	60	100	06
PGBECO103	Research Methodology and Technical Tools for Statistical Analysis-I	04	40	60	100	06
PGBECO104 A	Agricultural Economics	04	40	60	100	06
OR			OR			

PGBECO104 B	MOOCs	03	40	60	100	06
PGBECO105	Entrepreneurship Development and Project Management-I	04	40	60	100	04
	Total	**23**	**240**	**360**	**600**	**34**

Semester-II						
Course Code	**Course Name**	**Teaching Scheme (Hours /Week)**	**Examination Scheme and Marks**			**Credit Scheme**
		Lecture	**CIE**	**Sem End-Exam**	**Total**	
		4	40	60	100	
PGBECO201	Microeconomic Analysis	04	40	60	100	06
PGBECO202	Macroeconomic Analysis	04	40	60	100	06
PGBECO203	Research Methodology and Technical Tools for Statistical Analysis	04	40	60	100	06

PGBECO204 A	Agricultural Economics	04	40	60	100	06
OR			OR			
PGBECO204 B	MOOCs	03	40	60	100	06
PGBECO205	Entrepreneurship Development and Project Management- II					04
	Total	**23**	**240**	**360**	**600**	**24**

Note: All topics have to be covered with proof in details (unless mentioned otherwise) and examples.

Syllabus

Semester I

Microeconomic Analysis - I				
Course Code	Unit	Topics	Credits	L/Week
PGBECO101	I	Introduction and Basic Concepts	6	4
	II	Theory of Production and Cost		
	III	Applications of Demand and Supply Analysis		
	VI	Social Welfare Function and Theory of Social Choice		
Macroanalysis I				
Course Code	Unit	Topics	Credits	L/Week
PGBECO102	I	National Income	6	4
	II	Aggregate Supply & Aggregate Demand		
	III	New Classical Macroeconomics & Open		

		Economy Issues		
	VI	Demand for money and Supply of Money		
Research Methodology and Statistical Tools for Data Analysis -I				
Course Code	Unit	Topics	Credits	L/Week
PGBECO103	I	Introduction	6	4
	II	Research Problem and Research Design		
	III	Data Collection		
	VI	Interpretation and report writing		
Agricultural Economics				
Course Code	Unit	Topics	Credits	L/Week
PGBECO104A	I	Introduction	6	4
	II	Agricultural Credits		
	III	Agriculture Marketing		
	VI	Sustainable Agricultural Development		
Entrepreneurship Development and Project Management-I				
Course Code	Unit	Topics	Credits	L/Week
PGBECO105	I	Entrepreneurship: A conceptual framework.	6	3
	II	Entrepreneurship in India		
	III	Developing Ideas for Entrepreneurship		
	VI	Supporting agencies for Entrepreneurship Development.		

Semester II

Microanalysis II				
Course Code	Unit	Topics	Credits	L/Week
PGBECO201	I	Price & output Determination (I)	4	4
	II	Price & Output Determination (II)		
	III	Factor Pricing		
	VI	Theories of Firm		
Macroeconomics-II				
Course Code	Unit	Topics	Credits	L/Week
PGBECO202	I	Theory of Inflation & Trade Cycle		
	II	Issues in Stabilization Policies		

	III	Macroeconomics: From Open Economy point of view	4	4
	VI	Macroeconomic Policies		
Research Methodology and Statistical Tools for Data Analysis -II				
Course Code	Unit	Topics	Credits	L/Week
PGBECO203	I	Central Tendency, Correlation and Regression	4	4
	II	Index Number		
	III	Sampling		
	VI	Hypothesis formulation and Hypothesis Testing		
Agricultural Economics				
Course Code	Unit	Topics	Credits	L/Week
PGBECO204	I	Agricultural Pricing	2	3
	II	Comparative Agriculture		
	III	Agricultural Inputs		
	VI	Agro – Industries in India.		
Entrepreneurship Development and Project Management- II				
Course Code	Unit	Topics	Credits	L/Week
PGBECO205	I	Introduction	4	3
	II	Project Feasibility studies		
	III	Project Planning		
	VI	Project Costing Monitoring and Control		

Teaching Pattern

1. For PGBECO101 to PGBECO105 and PGBECO201 to PGBECO205 four lectures per week per course. Each lecture should be of one-hour duration.

SEMESTER I
PGBECO101 MICROECONOMIC ANALYSIS

Total Marks: 100(Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs. **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be able to:

CO1: Understand the basic economic problems like scarcity, making choices, opportunity cost and acquaint about microeconomics
CO2: Argue on managerial skills for decision making, Consumer and producer's equilibrium. [5]*

CO3: Highlighting and compare theories of demand and recent development. [1& 2]* [Neumann – Morgenstern Statistical Utility Theory and Armstrong's Marginal Preference Theory]

CO4: Articulate production theories, investments, economies, diseconomies, its scope and scale. [3]*

CO5: Understand applications of demand and supply analysis.[2]*

CO6: Understand and analyse various welfare functions i.e. classical, Pareto and Caldor, Rawlasian, Bergson- Samuelson, Arrow's, Amartya Sen on Arrow's Impossibility Theorem. [2 & 4]*

***Note:** [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, [**CO4**]: Analyzing, [**CO5**]: Evaluating, [**CO6**]: Creating

Module I: Introduction and Basic Concepts

1.1 Basic Economic Problems: - Scarcity & Choice
1.2 Micro and macro Economics: - Nature, Scope, Importance & Limitations.
1.3 Ordinal Utility Approach: - Indifference curve, Properties, Consumer's equilibrium, Price, income & substitution effects, Derivation of Demand Curve.
1.4 Revealed Preference Theory of Demand.
1.5 Recent Development in Demand Theory: - Hicksian Revised Theory – Neumann – Morgenstern Statistical Utility Theory, Indirect Utility Function

Module II: Theory of Production and Cost

2.1 Types of production functions- short run and long run
2.2 Cobb - Douglas Production Function
2.3 Elasticity of Technical Substitution(Between Factors)
2.4 Production Function and Technological Change.
2.5 Cost functions, average and marginal costs, short run versus long run costs.
2.6 Economies of scale and scope

Module III: Applications of Demand and Supply Analysis

3.1 Price Control and Rationing
3.2 Rent control
3.3 Minimum Support Price
3.4 Paradox of Bumper Harvesting and Crop Restriction Program and Farmers Income
3.5 Failure of OPEC to keep the price of oil high for long

Module IV: Social Welfare Function and Theory of Social Choice

4.1 Classical Welfare Function
4.2 Pareto Social Welfare Function
4.3 Kaldor-Hicks Compensation Principle
4.4 Bergson- Samuelson Social Welfare Function
4.5 Amartya Sen on Arrow's Impossibility Theorem

References:

1) Ahuja H. L., Advanced Economic Theory: Microeconomics Analysis, 13th Edition, S. Chand
2) Baumol, W.J. (1982): Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
3) Dewett K. K., Modern Economic Theory, S. Chand & Company Ltd., Revised Edition, 2005.

4) Koutsoyiannis, A. (1979): Modern Microeconomics, 2nd ed., Macmillan Press, London.
5) Kreps, David M (1990): A Course in Microeconomic Theory, Princeton University Press

PGBECO101
MICROECONOMIC ANALYSIS

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Understand the basic economic problems like scarcity, making choices, opportunity cost and acquaint about microeconomics

CO2: Argue on managerial skills for decision making, Consumer and producer's equilibrium. [5]*

CO3: Highlighting and compare theories of demand and recent development. [1& 2]* [Neumann – Morgenstern Statistical Utility Theory and Armstrong's Marginal Preference Theory]

CO4: Articulate production theories, investments, economies, diseconomies, its scope and scale. [3]*

CO5: Understand applications of demand and supply analysis.[2]*

CO6: Understand and analyse various welfare functions i.e. classical, Pareto and Caldor, Rawlasian, Bergson- Samuelson, Arrow's, Amartya Sen on Arrow's Impossibility Theorem. [2 & 4]*

***Note:** [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, [**CO4**]: Analyzing, [**CO5**]: Evaluating, [**CO6**]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet

Students Centric Methods: Problem Solving and Participative
(Participative, Problem Solving)

Links: SWAYAM / MOOCS:

The CO-PO Mapping Matrix

CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	3	-	1	-	-	-	-	1	-
CO2	3	-	1	1	-	-	3	1	-
CO3	3	-	3	-	-	-	1	2	-
CO4	3	-	1	-	-	-	1	2	-
CO5	3	-	3	3	-	1	2	1	1
CO6		-	1	3	-	-	-	-	-

***In CO-PO Mapping Matrix:** a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium), 3 being substantial (high) and '-' indicate there is no correlation in respective CO and PO.

PGBECO102
MACROECONOMIC ANALYSIS

Total Marks: 100 (Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be able to:

CO1: Explain the concept of Aggregate Income and its Dimensions(2)
CO2: Distinguish between GNP, GDP, NDP (5)
CO3 Describe the Keynesian concepts of Aggregate Demand (ADF), Aggregate Supply (ASF)(1)
CO4 Apply the IS-LM model of Equilibrium in the goods and money market. (3)
CO5: Analyse the Balance of payments disequilibrium of an open economy. (4)
CO6: Evaluate the effectiveness of devaluation(5)

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

Module I: National Income

1.1 Gross Domestic Product, Gross National Product, Net Domestic Product, measurement methods and difficulties.
1.2 Nominal and Real domestic product. Price Indices, base effect and GDP deflator.
1.3 Concept of disposable Income and Relationships between Income & Consumption.
1.4 Personal income: concept and implications.
1.5 Social accounting – presentation and importance of social accounting, difficulties in social accounting

Module II Aggregate Supply & Aggregate Demand

2.1 Classical Theory of Income, Output and Employment.
2.2 Keynesian Theory of Income, Output and Employment, Principles of Effective Demand, Aggregate Demand and Aggregate Supply, Importance of Effective Demand.

Module III New Classical Macroeconomics & Open Economy Issues

3.1 Consumption and saving, Life cycle hypothesis, Permanent income Hypothesis, relative income hypothesis.
3.2 Investment spending, Marginal productivity of capital, Concept of accelerator and super Multiplier.
3.3 The Rational expectations Revolution New Classical Macroeconomics: Perfect Information Rational Expectations

Module VI: Demand for money and Supply of Money

4.1 Classical Approach to Demand For Money – Fisher and Cambridge
4.2 Keynesian approach - Liquidity Preference Theory
4.3 Milton Friedman's Approach
4.4 Components of money supply. Measurement of money supply- RBI Approach to Money Supply (old and new)
4.5 High Powered Money and Money Multiplier. Budget Deficits and Money Supply

References:

1) D'Souza, Errol (2008), Macroeconomics, Pearson Education, Delhi.
2) Gupta R.D. and Rana A.S. (1998): Post-Keynesian Economics, Kalyani Publishers, Ludhiana.
3) Jha, R (1991) : Contemporary Macro Economic theory and Policy, Wiley Eastern Ltd.,
4) Keynes, J.M (1936) : General Theory of Employment, Interest and Money
5) Mithani D. M., Money, Banking, International trade and public finance, Himalaya Publications

PGBECO102
MACRO ECONOMICS

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Explain the concept of Aggregate Income and its Dimensions(2)
CO2: Distinguish between GNP, GDP, NDP (5)
CO3 Describe the Keynesian concepts of Aggregate Demand (ADF), Aggregate Supply (ASF)(1)
CO4 : Apply the IS-LM model of Equilibrium in the goods and money market. (3)
CO5: Analyse the Balance of payments disequilibrium of an open economy. (4)
CO6: Evaluate the effectiveness of devaluation(5)

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet									
Students Centric Methods: Problem Solving and Participative (Participative, Problem Solving)									
Links: SWAYAM / MOOCS:									
The CO-PO Mapping Matrix									
CO\PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**
CO1	3	-	2	1	1	1	2	1	1
CO2	3	-	2	1	1	1	3	1	2
CO3	3	-	2	1	1	1	1	1	-
CO4	3	-	3	1	1	1	2	1	-
CO5	3	-	3	1	1	1	2	1	-
CO6	3	-	3	1	1	1	2	1	-
CO7	3	-	3	1	1	1	2	1	-

***In CO-PO Mapping Matrix:** a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium), 3 being substantial (high) and '-' indicate there is no correlation in respective CO and PO.

PGBECO103
RESEARCH METHODOLOGY AND STATISTICAL TOOLS FOR DATA ANALYSIS -I

Total Marks: 100 (Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be

CO1: Understand definition, objectives and significance of research [2]
CO2: Explain types, process, ethics, methods and methodology of research (4)
CO3: Executing research from identification of the problem to presentation of the research report.[6]

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

Module I: Introduction

1.1 Research: definition, objectives and significance
1.2 Types of Research
1.3 Research Methods Versus Methodology
1.4 Research Process
1.5 Research Ethics

Module II: Research Problem and Research Design

2.1 Research Problem: definition, identification and necessity
2.2 Technique involved in defining a problem
2.3 Research Design: Meaning, needs and features
2.4 Important concepts related to research design
2.5 Types of research design

Module III: Data Collection

3.1 Primary Data Collection Methods: Observation, Interview, Questionnaires, Schedule, Survey and Experiments.
3.2 Secondary Data Collection Methods: Meaning and various secondary data source
3.3 Selection of Appropriate method for data collection

Module VI: Interpretation and Rreport Writing

4.1 Meaning, techniques and precaution in interpretation
4.2 Significance of report writing
4.3 Layout and steps in writing report
4.4 Types of report: Technical report, Popular report and oral presentation

References:

1. C. R. Kothari and Gaurav Garg, Research Methodology, Methods and Techniques, Fourth Multicolour Edition, New Age Publishers, 2019.
2. Goode J. William & Hatt K. Paul, Methods in social Research, New York, McGraw-Hill, 1952.
3. Krishnaswami, O.R &, M. Ranganathan, Methodology of Research in Social Sciences, Himalaya Publishing House, Mumbai, 2011.
4. Kumar, Renjith (2009) Research Methodology: A Step-by-Step Guide for Research, Delhi, Pearson Education, 2009.
5. P. Saravanavel Research Methodology, KitabMahal, Allahabad, 1987. 6) Gupta S P Statistical Methods Sultan Chand and Sons

PGECO103
Research Methodology and Statistical Tools for Data Analysis -I

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Understand definition, objectives and significance of research [2]
CO2: Explain types, process, ethics, methods and methodology of research (4)
CO3: Executing research from identification of the problem to presentation of the research report.[6]

*Note: [1]: Remembering, [2]: Understanding, [3]: Applying, [4]: Analysing, [5]: Evaluating, [6]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet

Students Centric Methods: Economic Problem Solving and Participative (Experimental, Participative, Problem Solving)

Links: SWAYAM / MOOCS:

The CO-PO Mapping Matrix

CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	3	-	2	1	1	1	2	1	1
CO2	3	-	3	1	1	1	2	1	1
CO3	3	-	3	1	1	1	3	1	1

PGBECO104
Agricultural Economics

Total Marks: 100 (Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be
CO1: Understand Agriculture pricing system in India.(2)
CO2: Evaluate National Agriculture Policy and National policy for Farmers.(5)
CO3: Analyse Cropping pattern and Land reforms in India.(4)
CO4: Evaluate Agriculture Inputs.(5)
CO5: Understand Irrigations, Water management, Energy sources, Fertilizers.(2)
CO6: Understand and Analyse Role of Agro industries in India. (2)
CO7: Evaluate Agro tourism and Policy measures.(5)

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4]**: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

ModuleI: Introduction

1.1 Meaning, nature and scope of agricultural economics
1.2 Contribution of Agriculture in economic development
1.3 Interdependence of agriculture and industry
1.4 Cropping pattern in India
1.5 Agricultural Productivity - causes of low productivity and measures taken to improve agricultural productivity in India.

Module II: Agricultural Credits

2.1 Need and types of agricultural credit.
2.2 Unorganized credit system, Role, Problems & Report of Radhakrishna Committee
2.3 Institutional sources – Cooperative credit system, NABARD and Vaidynathan committee
2.4 Micro Finance –Meaning and Role
2.5 Agricultural credit – Challenges, opportunities, and Strategies

Module III: Agriculture Marketing

3.1 Nature and Types of Agriculture produce
3.2 Concept and types of Agricultural Markets
3.3 New Farm Bills 2020: Pros and Cons
3.4 Marketable and Marketed surplus, causes of low marketable surplus in India.
3.5 Problems of Agriculture Marketing in India.
3.6 Model APMC Act 2003
3.7 National Agriculture Market (eNAM)

Module IV: Sustainable Agricultural Development

4.1 Bio Technology – Meaning and Trends
4.2 Organic Farming – Present status and Future
4.3 Contract Farming -Present Status and Future
4.4 Diversification of Agriculture in India
4.5 Efficiency of irrigation

UGECO302

Agricultural Economics

Course Outcomes: After successful completion of this course, students will be able to:

CO1 Understand the role of Agriculture in Economy. (2)
CO2: Analyse cropping pattern and Productivity of Agriculture in India.(4)
CO3: Evaluate causes of Low Productivity and suggest measures for the same. (5)
CO4: Analyse Agriculture credit system in India.(4)
CO5: Evaluating Social accounting and relation between Income and consumption.(5)
CO6: Understand role of Micro finance in Agriculture credit. (2)

ICT Tools Used: Videos, PPT, Pen-Tablet

Students Centric Methods: Economic Problem Solving and Participative (Experimental, Participative, Problem Solving)
Links: SWAYAM / MOOCS:
The CO-PO Mapping Matrix

CO\ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
CO1	3	-	2	1	1	1	1	1	3
CO2	2	-	3	2	1	1	2	1	3
CO3	3	-	2	1	1	1	1	1	3
CO4	3	-	2	1	1	1	1	1	3
CO5	3	-	3	2	1	1	2	1	3
CO6	3	-	3	2	1	1	2	1	3

In CO-PO Mapping Matrix: a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium), 3 being substantial (high) and '-' indicate there is no correlation in respective CO and PO.

PGBECO105

Entrepreneurship Development and Project Management-I

Total Marks: 100 (Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be

CO1: Understand definition, objectives and significance of research [2]
CO2: Explain types, process, ethics, methods and methodology of research (4)
CO3: Executing research from identification of the problem to presentation of the research report.[6]

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

4.1

Entrepreneurship: A conceptual framework. (15 hours)

1.1 Introduction: Definition, characteristics, types, scope of entrepreneurship in India.
1.2 Role and need of entrepreneurship in economic development.
1.3 Skills required and functions of entrepreneur.
1.4 Barriers to entrepreneurship Development: a) Social b) Cultural c) Economical d) Political e) educatio

Entrepreneurship in India (15 hours)
2.1 Brief History and concept of Business Houses
2.2 Role models, their values and philosophy.
2.3 Initiatives of government of India to promote entrepreneurship- Start up India, stand up India, Make in
2.4 Women entrepreneurship: Government's initiatives, Scope, and Limitations.
2.5 Case Studies of successful Entrepreneur. a) Local b) Regional c) National.

Developing Ideas for Entrepreneurship (15 hours)
3.1 Entrepreneurial Development in India; influencing Factors (Psychological, Social and Cultural factors)
3.2 Theories of Entrepreneurship - Contribution of David McClelland and Joseph Schumpeter
3.3 Concepts of Innovation, Invention, Incubation

4.2 3.4 Micro Small and Medium Enterprise Development Act. 2006 (MSMED) and Its Latest Amendment

PGBECO105

Entrepreneurship Development and Project Management-I

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Understand definition, objectives and significance of research [2]

CO2: Explain types, process, ethics, methods and methodology of research (4)

CO3: Executing research from identification of the problem to presentation of the research report.[6]

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet

Students Centric Methods: Economic Problem Solving and Participative (Experimental, Participative, Problem Solving)

Links: SWAYAM / MOOCS:

The CO-PO Mapping Matrix

CO\P O	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9
CO1	3	-	2	-	-	-	3	1	-
CO2	2	-	3	1	-	-	2	1	-
CO3	1	-	1	-	-	-	1	2	-

In CO-PO Mapping Matrix: a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium), 3 being substantial (high) and '-' indicate there is no correlation in respective CO and PO.

SEMESTER II

PGBECO205

MICROECONOMIC ANALYSIS

Total Marks: 100(Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs. **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be able to:

CO1: Understand the process of price determination in different types of markets, pricing methods

and compare it .[2]*

CO2: Assessing the measures to control monopoly.[5]*

CO3: Understand and correlate Game Theory and its role in the economics.[4]*

CO4: Understand theories of factor pricing and problem of product exhaustion [2]*

CO5: Understand and analyse an objectives of the firms [2 & 4]*

***Note:** [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, [**CO4**]: Analyzing, [**CO5**]: Evaluating, [**CO6**]: Creating

Module I: Price & output Determination (I) (12 hours)

1.1 Perfect Competition - Features, Price Determination, and Equilibrium of the Firm and Industry.
1.2 Monopoly: - Price and Output Determination.
1.3 Comparison between Monopoly equilibrium and perfect Competition Equilibrium
1.4 Measurement of Degree of Monopoly Power.
1.5 Regulation of Monopoly – Through Taxation and Price Regulation

Module II: Price & Output Determination (II) (12 hours)

2.1 Monopolistic competition – features, equilibrium of the firm and Group in the short run and long run,
2.2 Wastages in monopolistic competition
2.3 Oligopoly – Causes for the existence of oligopoly
2.4 Kinky Demand Curve Theory of Oligopoly
2.5 Dominant Strategy and Nash Equilibrium
2.6 Neumann and Morgnstern Game theory
2.7 Prisoner's Dilemma and Instability of Cartel

Module III: Factor Pricing (12 hours)

3.1 Marginal Productivity Theory.

3.2 Factors pricing under imperfect competition.
3.3 Euler's Theorem and Product Exhaustion Problem or Adding up Problem.
3.4 Modern Theory of Rent.
3.5 Wage Determination under Collective Bargaining.
3.6 Loanable funds Theory of Interest.
3.7 Risk and Uncertainty Theory of profit.

Module IV:Theories of Firm (12 hours)

4.1 Objectives of modern firm- Baumol's Sales Revenue Maximization Model
4.2 Williamson's Model of Managerial Discretion-.
4.3 Marris Model of Managerial Enterprise.
4.4 The Hall and Hitch Report – Full Cost Pricing Rule
4.5 Bain's Limit pricing theory

References:

1) Ahuja H. L., Advanced Economic Theory: Microeconomics Analysis, 13th Edition, S. Chand
2) Baumol, W.J. (1982): Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
3) Dewett K. K., Modern Economic Theory, S. Chand & Company Ltd., Revised Edition, 2005.

Koutsoyiannis, A. (1979): Modern Microeconomics, 2nd ed

PGBECO201
MICROECONOMIC ANALYSIS

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Understand the process of price determination in different types of markets, pricing methods and compare it .[2]*
CO2: Assessing the measures to control monopoly.[5]*
CO3: Understand and correlate Game Theory and its role in the economics.[4]*
CO4: Understand theories of factor pricing and problem of product exhaustion [2]*
CO5: Understand and analyse an objectives of the firms [2 & 4]*

***Note:** [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, [**CO4**]: Analyzing, [**CO5**]: Evaluating, [**CO6**]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet

Students Centric Methods: Problem Solving and Participative (Participative, Problem Solving)									
Links: SWAYAM / MOOCS:									
The CO-PO Mapping Matrix									
CO\PO	**PO1**	**PO 2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**
CO1	3	-	2	-	-	-	-	1	-
CO2	3	-	3	1	-	-	3	1	-
CO3	3	-	1	-	-	-	1	2	-
CO4	3	-	1	-	-	-	1	2	-
CO5	3	-	3	2	-	1	2	1	1

***In CO-PO Mapping Matrix:** a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium), 3 being substantial (high) and '-' indicate there is no correlation in respective CO and PO.

PGBECO202

Macro Economics II

Total Marks: 100(Theory 60 and CIE 40)
Workload: 5 Lectures(Per week per Batch) **Credit:** 6
Duration:48 Hrs **Examination**: 2 Hrs

Course Outcomes: Upon successful completion of this course, students will be able to:

CO1: Understand Theory of Inflation and trade cycle. (2)
CO2 Apply and Evaluate Conditions for equilibrium under profit maximization.(3&5)
CO3: Solving Issues in Stabilizing policies. (6)
CO4: Analyse Monetarism and Fiscalism. (4)
CO5 Understand and Evaluate Macroeconomics from open economy point of view.(2&5)
CO6: Analysing Mundell -Flaming model.(4)
CO7: Evaluating Macro Economic Policies. (5)

*Note: [1]: Remembering, [2]: Understanding, [3]: Applying, [4]: Analysing, [5]: Evaluating, [6]: Creating

MODULE I Theory of Inflation & Trade Cycle

1.1 Classical, Keynesian Monetarist Approach to Inflation, stagflation.
1.2 Structuralism Theory of inflation.
1.3 Phillips curve Analysis - Samuelson and Solow
1.4 The Natural Rate of Unemployment Hypothesis
1.5 Tobins Phillips Curve.
1.6 The Real Business cycle Theory

MODULE II: Issues in Stabilization Policies

2.1 Lags in the Effects of Policy
2.2 The Role of Expectations
2.3 Uncertainty and Economic Policy
2.4 The mechanics of financing the budget
2.5 The Laffer Curve
2.6 Monetarism Vs. Fiscalism
2.7 The Portfolio Approach

MODULE III: Macroeconomics: From Open Economy point of view

3.1 Market for foreign exchange
3.2 Fixed versus flexible exchange rate
3.3 Real and nominal exchange rate
3.4 Devaluation and depreciation
3.5 Purchasing power parity Theory
3.6 Mundell-Fleming model.

MODULE VI: Macroeconomic Policies

4.1 Monetary Policy – Objectives and instruments
4.2 Recent trends in monetary policy
4.3 Monetary policy committee
4.4 Fiscal Policy – instruments
4.5 Relative role of monetary and fiscal policy

References:

1) D'Souza, Errol (2008), Macroeconomics, Pearson Education, Delhi.
2) Gupta R.D. and Rana A.S. (1998): Post-Keynesian Economics, Kalyani Publishers, Ludhiana.
3) Jha, R (1991) : Contemporary Macro Economic theory and Policy, Wiley Eastern Ltd.,
4) Keynes, J.M (1936) : General Theory of Employment, Interest and Money
5) Mithani D. M., Money, Banking, International trade and public finance, Himalaya Publications
6) Rakshit, M. (1998), Studies in the Macroeconomics of Developing Countries, Oxford University Press, New DelHI

PGBECO202

MACROECONOMIC ANALYSIS

Course Outcomes: After successful completion of this course, students will be able to:

Course Outcomes: Upon successful completion of this course, students will be able to:

CO1: Understand Theory of Inflation and trade cycle. (2)

CO2 Apply and Evaluate Conditions for equilibrium under profit maximization.(3&5)

CO3: Solving Issues in Stabilizing policies. (6)

CO4: Analyse Monetarism and Fiscalism. (4)

CO5 Understand and Evaluate Macroeconomics from open economy point of view.(2&5)

CO6: Analysing Mundell -Flaming model.(4)

CO7: Evaluating Macro Economic Policies. (5)

***Note:** [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, [**CO4**]: Analyzing, [**CO5**]: Evaluating, [**CO6**]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet

Students Centric Methods: Problem Solving and Participative (Participative, Problem Solving)

Links: SWAYAM / MOOCS:

CO\P O	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9
CO1	3	-	1	1	1	1	1	1	1
CO2	3	-	3	1	1	1	1	1	1
CO3	3	-	3	1	1	1	2	1	1
CO4	3	-	3	1	1	1	2	1	1
CO5	3	-	3	1	1	1	2	1	1
CO6	3	-	3	1	1	1	2	1	1
CO7	3	-	3	1	1	1	3	1	1

PGECO203
Research Methodology and Statistical Tools for Data Analysis -II

Total Marks: 100(Theory 60 and CIE 40)
Workload: 3 Lectures(Per week per Batch) **Credit:** 3
Duration:48 Hrs **Examination**: 2 Hrs

Course Outcomes: Upon successful completion of this course, students will be able to:

CO1: Understand important statistical techniques required for research and its uses [2]

CO2: Understand various concepts of Index, various indices, its calculation, interpretation and uses. (2)

CO3:Understand definition, types and execute sampling in the research [2 & 4]

CO4: Writing hypothesis, select appropriate test and apply the same [6]

*Note: [1]: Remembering, [2]: Understanding, [3]: Applying, [4]: Analysing, [5]: Evaluating, [6]: Creating

Module I Central Tendency, Correlation and Regression

1.1 Central Tendency: Mean, Mode and Medium

1.2 Correlation-Meaning and types of correlation, measurement of correlation, Scatter diagram, Karl Pearson's coefficient of correlation, Spearman's Rank correlation- Testing of correlation coefficient.

1.3 Regression: Simple regression model-estimation ñ least squares model- Goodness of fit. Introduction to multiple regressions

Module II Index Number

2.1 Meaning and classification and problems encountered while constructing index numbers-uses and limitation of index numbers Methods of constructing index numbers: Simple indices) aggregate method ii) simple average of relative's method, Weighted index: Laspeyer's, Paache's and Fishers index and weighted average of relative's method. Limitations of Index Number.

2.2 Concepts of Base shifting, splicing, and deflating, Consumer price index: meaning, need and construction ñ methods: aggregate expenditure method and family budget method.

Module III Sampling

3.1 Meaning and Aims of Sampling

3.2 Characteristics of good Sample

3.3 Sampling Techniques or Methods

3.4 Probability Sampling Methods

3.5 Non-Probability Sampling Methods

3.6 Optimum size of sampling and Advantages and Limitations of Sampling

Module IV Hypothesis formulation and Hypothesis Testing

4.1 Definition, functions of hypothesis and Criteria of workable hypothesis, forms and sources of hypothesis- Testing of Hypothesis

4.2 Null and Alternative Hypotheses, Levels of Significance, critical region, Type I and Type II errors.

4.3 T-test, F-test, X 2 -test

References:

1. Batra G.S. and Dangal R.C., Entrepreneurship and Small Scale Industries, Deep and Deep Publications Pvt.Ltd.
2. Entrepreneurial Development, Colombo Plan, 1998, Tata McGraw Hill, New Delhi. 20
3. Entrepreneurship Development, Himalaya Publishing House, Mumbai.
4. Gupta C.B., Entrepreneurial Development, 1995, Somaiya Publication, New Delhi.
5. Hisrich Robert D and Peters Michael, Entrepreneurship, 2002, Tata McGraw Hill, New Delhi
6. Mascarenhas Romeo S., Entrepreneurship and Management of Small and Medium Enterprises, Vipul ,Prakashan, Mumbai.
7. Pooja, Micro, Small and Medium Enterprises (MSMEs) in Indian Economy, New Century Publications New, Delhi.
8. Principles of Entrepreneurship, Excel India Publishers, New Delhi.
9. Sharma P.K., Development Banks and Entrepreneurship Promotion in India, Mittal Publications.
10. Vasant Desai, Small Scale Industries and Entrepreneurship, Himalaya Publishing House

PGECO203

Research Methodology and Statistical Tools for Data Analysis -II

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Understand important statistical techniques required for research and its uses [2]

CO2: Understand various concepts of Index, various indices, its calculation, interpretation and uses. (2)

CO3:Understand definition, types and execute sampling in the research [2 & 4]

CO4: Writing hypothesis, select appropriate test and apply the same [6]

*Note: [1]: Remembering, [2]: Understanding, [3]: Applying, [4]: Analysing, [5]: Evaluating, [6]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet

Students Centric Methods: Economic Problem Solving and Participative (Experimental, Participative, Problem Solving)

Links: SWAYAM / MOOCS:

The CO-PO Mapping Matrix

CO\PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
CO1	3	-	2	1	1	1	2	1	1
CO2	3	-	3	1	1	1	2	1	1
CO3	3	-	3	1	1	1	3	1	1
CO4	3	-	2	1	1	1	1	1	1

PGBECO104
Agricultural Economics

Total Marks: 100 (Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be

CO1: Understand Agriculture pricing system in India.(2)
CO2: Evaluate National Agriculture Policy and National policy for Farmers.(5)
CO3: Analyse Cropping pattern and Land reforms in India.(4)
CO4: Evaluate Agriculture Inputs.(5)
CO5: Understand Irrigations, Water management, Energy sources, Fertilizers.(2)
CO6: Understand and Analyse Role of Agro industries in India. (2)
CO7: Evaluate Agro tourism and Policy measures.(5)

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

ModuleI:Agricultural Pricing **(12 hours)**

1.1 National Agricultural Policy -2000
1.2 National Policy for Farmers- 2007
1.3 Objectives of Agricultural Price Policy
1.4 Commission on Agriculture Costs and Prices (CACP)
1.5 Role of MSP
1.6 Food Corporation of India (FCI)
1.7 Food Security in India.
1.8 Farmers' suicide

Module II: Comparative Agriculture **(12 hours)**

2.1 Cropping pattern - Factors affecting cropping pattern
2.2 Farm size and productivity
2.3 Land reforms in India
2.4 Green Revolution- History & Recent Development

Module III: Agricultural Inputs **(12 hours)**

3.1 Irrigation – Potential, Sources, Progress and Problems
3.2 Water Management.
3.3 Energy -Sources, Progress and Problems
3.4 Fertilizers and Pesticides -Types, Uses and Effects
3.5 Trends in Pricing of Agricultural Inputs

Module IV:Agro – Industries in India. **(12 hours)**

4.1 Role and Types of Agro- Industries
4.2 Problems and Measures of Agro- Industries
4.3 Sugar and Dairy Co-operatives.
4.4 Cottage and Food Processing Industries
4.5 Agro Tourism and Policy Measures

UGECO302

Agricultural Economics

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Understand Agriculture pricing system in India.(2)
CO2: Evaluate National Agriculture Policy and National policy for Farmers.(5)
CO3: Analyse Cropping pattern and Land reforms in India.(4)
CO4: Evaluate Agriculture Inputs.(5)
CO5: Understand Irrigations, Water management, Energy sources, Fertilizers.(2)
CO6: Understand and Analyse Role of Agro industries in India. (2)
CO7: Evaluate Agro tourism and Policy measures.(5)
* Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet
Students Centric Methods: Brainstorming,Problem Solving (Participative Problem Solving)

Links: SWAYAM / MOOCS:									
The CO-PO Mapping Matrix									
CO\P O	**P O 1**	**P O 2**	**P O 3**	**P O 4**	**P O 5**	**P O 6**	**P O 7**	**P O 8**	**P O 9**
CO1	3	-	2	1	1	1	1	1	1
CO2	2	-	3	2	1	1	2	1	1
CO3	3	-	2	1	1	1	1	1	1
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CO5	3	-	3	2	1	1	2	1	1
CO6	3	-	3	2	1	1	2	1	1
CO7	3	-	3	2	2	1	2	1	1

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PGBECO205

Entrepreneurship Development and Project Management-II

Total Marks: 100 (Theory 60 and CIE 40)
Workload: 4 Lectures **Credit:** 6
Duration: 48 Hrs **Examination**: 2 Hrs
Course Outcomes: Upon successful completion of this course, students will be

CO1: Understand basic concepts and definition related to project and project management. (2)
CO2: Understand role, responsibility develop qualities required of project manager. (2)
CO3: Prepare project reports and evaluate the same. (3&5)
CO4: Understand ethics and environmental impacts of project. (2)
CO5: Learn Project Costing Monitoring and Control. (2)

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

ModuleI: Introduction (15 hours)

1.1 Basics: Definition of Project and Project Management.
1.2 Issue and Problems in Project Management.
1.3 Project life Cycle – Initiation /Conceptualization, Planning, Implementation /Execution phases.
1.4 Role, responsibilities and qualities required for project manager

Module II: Project Feasibility studies

2.1 Pre – feasibility and feasibility studies
2.2 Preparation of Detailed project Report
2.3 Technical, Economic, Commercial, Financial Appraisal
2.4 Capital Budgeting: Pay Back Period, Internal Rate of Returns and Net
Present value Break – Even Analysis and Social cost benefit analysis.

Module III: Project Planning (15 hours)

3.1 Project Planning: Importance, Steps and scope
3.2 Developing a Vision, Mission, Goals and Objectives of the Project Owners and Stakeholder.
3.3 Work Breakdown Structure (WBS) and Organization Break Down Structure (OBS)
3.4 Ethics of Business
3.5 Project and its effects on environment

Module IV: Project Costing Monitoring and Control (15 hours)

4.1 Project scheduling and costing – Gantt chart, CPM and PERT Analysis
4.2 Calculation of floats and slacks, crashing, Time cost
4.3 Defining Project Risks and Risk Matrix Analysis
4.4 Project Control and Evaluation
4.5 MIS In Project Monitoring

PGBECO205
Entrepreneurship Development and Project Management-II

Course Outcomes: After successful completion of this course, students will be able to:

CO1: Understand basic concepts and definition related to project and project management. (2)
CO2: Understand role, responsibility develop qualities required of project manager. (2)
CO3: Prepare project reports and evaluate the same. (3&5)
CO4: Understand ethics and environmental impacts of project. (2)
CO5: Learn Project Costing Monitoring and Control. (2)

*Note: [**CO1**]: Remembering, [**CO2**]: Understanding, [**CO3**]: Applying, **[CO4**]: Analysing, [**CO5**]: Evaluating, [**CO6**]: Creating

ICT Tools Used: Videos, PPT, Pen-Tablet
Students Centric Methods: Brainstorming,Problem Solving (Participative Problem Solving)
Links: SWAYAM / MOOCS:

The CO-PO Mapping Matrix

CO\P O	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9
CO1	3	-	2	1	1	1	2	1	1
CO2	3	-	3	1	1	1	2	1	1
CO3	3	-	3	1	1	1	3	1	1
CO4	3	-	2	1	1	1	1	1	1
CO5	3	-	3	1	1	1	1	1	1

***In CO-PO Mapping Matrix:** a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium), 3 being substantial (high) and '-' indicate there is no correlation in respective CO and PO.

SCHEME OF EXAMINATION

For UGECO101 to UGECO105 and UGECO201 to UGECO206 (Semester I & II)

Scheme of Examination:

The performance of the learners shall be evaluated in to two parts. The learner's performance shall be assessed by Internal Assessment with 40% marks in the first part by conducting the Semester End Examinations with 60% marks in the second part. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below: -

(A) Continues Internal Evaluation: 40 Marks (40%)

Sr. No	Evaluation type	Marks

1	Test	20
2	Open book test/online test/Project/survey	10
3	Assignment/case studies/Viva-Voce/Presentation	10

(B) Semester End Examination: 60 Marks (60%)

Question Paper Pattern Semester End Examination

Max.Marks:60 Time:2 Hrs

Note:1. All questions are **COMPULSORY**

2**.** Each question carries 15 marks.

3. Draw neat diagrams wherever necessary

Q.1 Answer Any Two of the following [Module 1] 15

A

B

C

Q.2 Answer Any Two of the following [Module 2] 15

A

B

C

Q.3 Answer Any Two of the following [Module 3] 15

A

B

C

Q. 4 Answer Any Two of the following [Module 4] 15

A

B

C