Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya, Latur

Empowered Autonomous Institution

Structure and Curriculum of Four Year Multidisciplinary Degree (Honors/Research) Programme with Multiple Entry and Exit option

Postgraduate Programme of Humanities & Social Sciences

M.A in Economics

Board of Studies

in

Economics

Rajarshi Shahu Mahavidyalaya, Latur

Empowered Autonomous Institution

[PG I Year]

w.e.f. June, 2026

(In Accordance with NEP-2020)

Review Statement

The NEP Cell reviewed the Curriculum of **M.A. in Economics** to be effective from the **Academic Year 2026-27.** It was found that, the structure is as per the NEP-2020 guidelines of Govt. of Maharashtra.

Date: 09/04/2026

Place: Latur

NEP CELL
Rajarshi Shahu Mahavidyalaya, Latur
Empowered Autonomous Institution

CERTIFICATE

I hereby certify that the documents attached are the Bonafide copies of the Curriculum of **M.A. in Economics** to be effective from the **Academic Year 2026-27.**

Date: / /

Place: Latur

Dr. Gadekar B. P.
Chairperson
Board of Studies in Economics
Rajarshi Shahu Mahavidyalaya, Latur
Empowered Autonomous Institution

Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya, Latur

Empowered Autonomous Institution

Members of Board of Studies in the Subject Economics

Under the Faculty of Humanities and Social Sciences

Sr. No.	Name	Designation	In position
1	**Dr. Buddhaji Pandurang Gadekar,** Assistant Professor, Rajarshi Shahu Mahavidyalaya, Latur (Empowered Autonomous Institution)	Chairperson	HoD
2	**Dr. Amol Pagar,** Head Dept. of Economis, Shivjagruti Mahavidyalaya, Nalegaon , Dist Latur Mob. 9021223301	Member	V.C. Nominee
3	**Dr. Nashiket Govindrao Suryavanshi,** Head, Dept. of Business Economics , Mulji Jatha College (Autonomous) Jalgaon Mob.9822864167	Member	Expert from outside for Special Course
4	**Dr. Deepak Mahadeo Bharti,** Head & Prof. Dept. of Economics, Yeshwantrao Chavan College Ambejogai Dist. Beed. Mob. 9422353611	Member	Expert from outside for Special Course
5	**Dr. S. S. Kondekar,** Associate Professor, School of Social Science SRTMUN Sub – Center, Peth Latur Mob. 9922304670	Member	Expert from outside for Special Course
6	**CA. Uday Bhikajirao Kittekar,** Kittekar & Associates, Chartered Accountants, Latur Mob. 7040308319	Member	Expert from Industry
7	**Prof. Kiran Lalasaheb Shinde,** Asst. Prof. MIT Adt University, Pune Mob. 9096701433	Member	P.G. Alumni
8	**Mr. Jivan Gaikwad,** Assistant Professor, Rajarshi Shahu Mahavidyalaya, Latur (Empowered Autonomous Institution)	Member	Faculty Member
9	**Ms. Rupali Jadhav** Assistant Professor, Rajarshi Shahu Mahavidyalaya, Latur (Empowered Autonomous Institution)	Member	Faculty Member
10	**Mr. Nitin Walke,** Assistant Professor, Rajarshi Shahu Mahavidyalaya, Latur (Empowered Autonomous Institution)	Member	Faculty Member

From the Desk of the Chairperson…

It gives me immense pleasure to present the academic vision and activities of the Department of Economics at Rajarshi Shahu Mahavidyalaya, an Empowered Autonomous Institution committed to excellence in higher education. The Department continuously strives to impart quality education in Economics in accordance with the principles and framework of the National Education Policy (NEP) 2020.

Economics, as a dynamic and multidisciplinary subject, plays a vital role in understanding social, industrial, financial, agricultural, and developmental issues of society. Our department aims to develop among students analytical ability, research aptitude, critical thinking, ethical values, and problem-solving skills necessary for understanding contemporary economic challenges at local, national, and global levels.

In alignment with NEP 2020, the Department has adopted an outcome-based and student-centric approach that emphasizes experiential learning, skill enhancement, multidisciplinary education, flexibility in curriculum design, and holistic development of learners. The curriculum has been carefully structured to integrate theoretical knowledge with practical applications through projects, field visits, internships, case studies, ICT-enabled teaching, and research-oriented activities.

The Department offers diverse courses covering Microeconomics, Macroeconomics, Banking and Financial Systems, Industrial Economics, Agricultural Economics, Public Finance, International Economics, and the Economy of Maharashtra. These courses are designed to equip students with conceptual clarity and practical competencies required for higher education, competitive examinations, entrepreneurship, and employment opportunities.

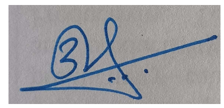
Special emphasis is given to value-based education, digital literacy, financial awareness, environmental sustainability, and socio-economic responsibility. The Department encourages students to participate actively in seminars, workshops, surveys, group discussions, and research projects to enhance their academic and professional capabilities.

Our dedicated faculty members continuously update their teaching methodologies in accordance with modern pedagogical practices and technological advancements. The Department also promotes the use of e-resources, online learning platforms, and blended learning methods to create an engaging and inclusive academic environment.

As an autonomous institution, the college enjoys academic flexibility that enables the Department to design innovative syllabi responsive to regional and global economic needs. We remain committed to nurturing responsible citizens, skilled professionals, and socially sensitive economists who can contribute effectively to nation-building and sustainable development.

I express my sincere gratitude to the Management, Principal, faculty members, stakeholders, alumni, and students for their continuous support and cooperation in strengthening the academic excellence of the Department.

I warmly welcome all students to the Department of Economics and wish them success in their academic journey and future endeavors.



Dr. Gadekar B. P.
Chairperson
Board of Studies in Economics
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Rajarshi Shahu Mahavidyalaya, Latur

Empowered Autonomous Institution

Faculty of Humanities and Social Sciences

Structure for Two Year Multidisciplinary Postgraduate Degree Programme in Economics

Multiple Entry and Exit (In accordance with NEP-2020)

Year Level	Sem	Major		RM	OJT/FP	RP	Cum. Cr	Marks	Degree
		Mandatory	**Elective**						
I 6.0	**I**	Major I 4Cr Major II 4Cr Major III 4Cr	MEC-I(A) OR MEC-I(B) 4Cr	RMC 4Cr	NA	NA	**20Cr**	Theory: 1Cr=25M	**PG Diploma (After 03 Year B.A. Degree)**
	II	Major IV 4Cr Major V 4Cr Major VI 4Cr	MEC-II(A) OR MEC-II(B) 4Cr	NA	OJT-I 4Cr /FP-I 4Cr	NA	**20Cr**	OJT/FP: 1Cr=25M	
	Total	**Major 24Cr**	**MEC 08Cr**	**RMC 04Cr**	**OJT/FP 04Cr**	**NA**	**40Cr**		
II 6.5	**III**	Major VII 4Cr Major VIII 4Cr Major IX 4Cr	MEC-III(A) OR MEC-III(B) 4Cr	NA	NA	RP-I 4 Cr	**20Cr**	RPI & RPII: 1Cr=25M	**PG Degree (After 03 Year UG Degree)**
	IV	Major X 4Cr Major XI 4Cr Major XII 4Cr	MEC-IV(A) OR MEC-IV(B) 4Cr	NA	NA	RP-II 6Cr	**22Cr**		
	Total	**Major 24 Cr**	**MEC 08 Cr**	**NA**	**NA**	**RP 10 Cr**	**42Cr**		
Cum. Total of I & II Year		**Major 48 Cr**	**MEC 16Cr**	**RMC 04Cr**	**OJT/FP 04Cr**	**RP 10Cr**	**40+42 =82 Cr**		**82 Credits**

Abbreviations:

1. MMC : Major Mandatory Course
2. MEC : Major Elective Course
3. RMC : Research Methodology Course
4. OJT : On Job Training (Internship/Apprenticeship)
5. FP : Field Project
6. RP : Research Project
7. Cum. Cr : Cumulative Credit

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Rajarshi Shahu Mahavidyalaya, Latur

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Faculty of Humanities and Social Sciences

M.A. in Economics

Year & Level	Semester	Course Code	Course Title	Credits	No. of Hrs.
I 6.0	I	601ECO1101 MMC-I	Advanced Micro Economics	04	60
		601ECO1102 MMC-II	Macro Economics	04	60
		601ECO1103 MMC-III	International Economics and Trade Theories	04	60
		601ECO1201 MEC-I (A) OR 601ECO1201 MEC-I(B)	Indian Agriculture & Rural Development OR Applied Mathematical Economics	04	60
		601ECO1301 RMC	Research Methodology	04	60
	Total Credits			20	
	II	601ECO2101 MMC-IV	Market Structure	04	60
		601ECO2102 MMC-V	Advanced Macro Economic Theories and Applications	04	60
		601ECO2103 MMC-VI	International Trade, Finance and Economic Institutions	04	60
		601ECO2201 MEC-II (A) OR 601ECO2201 MEC-II(B)	Agricultural Economics: Credit, Marketing and Global Perspectives OR Statistical Methods for Data Analysis	04	60
		Code FP-I	OJT / Field Project	04	60
	Total Credits			**20**	
Total Credits (Semester I & II)				**40**	

Name of the Programme: M.A. in Economics Degree Programme

Programme Outcomes (POs) for M.A. in Economics Degree Programme	
PO 1	**Economics Knowledge:** Demonstrate comprehensive and advanced knowledge of microeconomics, macroeconomics, international economics, agricultural economics, monetary economics, and market structures to understand contemporary economic issues and policies.
PO 2	**Statistical and Quantitative Skills:** Apply statistical techniques, probability theories, mathematical models, regression analysis, and quantitative tools for economic analysis, interpretation, and forecasting.
PO 3	**Analytical and Critical Thinking:** Analyze economic theories, market behavior, public policies, and macroeconomic frameworks critically to evaluate economic problems and propose logical solutions.
PO 4	**Environmental and Sustainable Development Awareness:** Assess the role of sustainable agriculture, environmental concerns, resource utilization, and inclusive development policies in achieving balanced economic growth.
PO 5	**Research and Field Work Skills:** Design and conduct economic research using scientific methodologies, data collection techniques, analytical tools, and structured report writing for academic and policy-oriented studies.
PO 6	**Use of Technology and Digital Competency:** Utilize digital technologies, statistical software, econometric tools, and information resources effectively for data analysis, research, presentation, and economic decision-making.
PO 7	**Problem Solving and Decision-Making Ability:** Apply economic reasoning, mathematical models, and policy analysis to solve real-world economic, agricultural, trade, and financial problems efficiently.

PO 8	**Communication and Presentation Skills:** Develop effective oral and written communication skills to present economic concepts, research findings, statistical interpretations, and policy recommendations professionally.
PO 9	**Social, Ethical, and Cultural Awareness:** Demonstrate awareness of social justice, ethical values, rural development, farmer welfare, globalization issues, and cultural diversity while analyzing economic systems and policies.
PO 10	**Employability, Entrepreneurship, and Lifelong Learning:** Enhance employability, leadership, entrepreneurial abilities, and lifelong learning skills required for careers in academics, research, banking, finance, public administration, agriculture, and industry.

Programme Specific Outcomes (PSOs) for M.A. in Economics	
PSO No.	After completion of this programme the students will be able to -
PSO 1	**Advanced Microeconomic Analysis** Apply advanced microeconomic theories related to consumer behavior, demand analysis, production, cost, and market equilibrium in economic decision-making.
PSO 2	**Macroeconomic Policy Competency** Analyze macroeconomic aggregates, monetary systems, inflation, trade cycles, and policy frameworks for understanding national and global economic issues.
PSO 3	**International Economic Understanding** Evaluate international trade theories, exchange rate systems, balance of payments, and global economic institutions in the context of economic development.
PSO 4	**Agricultural Economic Insight** Examine agricultural structure, productivity, credit, marketing, price policy, and sustainable agricultural development in India.
PSO 5	**Quantitative and Mathematical Skills** Apply mathematical and statistical tools, economic models, probability, regression, and optimization techniques in economic analysis.
PSO 6	**Research and Analytical Proficiency** Design, conduct, interpret, and present economic research using scientific methodology, data analysis, and critical thinking skills.
PSO 7	**Market Structure and Industrial Analysis** Evaluate firm behavior, pricing strategies, competition, oligopoly models, and managerial theories in different market structures.
PSO 8	**Economic Problem-Solving Ability** Integrate theoretical and applied economic knowledge to address contemporary socio-economic and policy-related challenges.
PSO 9	**Policy Evaluation and Decision-Making** Assess the effectiveness of fiscal, monetary, trade, and agricultural policies for inclusive and sustainable economic development.
PSO 10	**Professional, Ethical and Global Competence** Demonstrate professional ethics, communication skills, analytical reasoning, and global economic awareness for academic, research, and professional careers.

Semester - I

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Faculty of Humanities and social Science

Department of Economics

M.A. First Year Sem. I

Course Type: MMC-I

Course Title: Advanced Micro Economics

Course Code: 601ECO1101

Credits: 04 Max. Marks: 100 Lectures: 60 Hrs.

Learning Objectives:

LO1. To distinguish between income effect, substitution effect, and price effect in consumer choice theory.

LO2. To apply elasticity concepts in business decision-making and pricing strategies.

LO3. To explain production decisions using laws of production and factor substitution principles.

LO4. To analyze cost concepts including total, average, marginal, fixed, and variable costs.

LO5. To evaluate short-run and long run cost curves and explain modern cost theory.

Course Outcomes:

After completion of the course, the students will be able to-

CO1. Demonstrate advanced understanding of consumer behavior using indifference curve analysis and utility theory.

CO2. Analyze consumer equilibrium under varying income, price, and substitution effects.

CO3. Differentiate and measure various types of demand elasticity in theoretical and practical contexts.

CO4. Analyze production processes using production functions, isoquants, and iso-cost techniques.

CO5: Apply cost theories and their relationships (AC, MC) in real-world business decision-making.

Unit No.	Title of Unit & Contents	Hrs.
I	**Demand Theory and Utility Analysis**	**13**
	1. Indifference curve and properties **2. Marginal rate of substitution,**	

Unit No.	Title of Unit & Contents	Hrs.
	3. consumer's equilibrium **4. Income effect** **5. substitution effect** **6. price effect** **7. Engle curve** **8. Slutsky theorem.**	
	Unit Outcomes: UO 1. Analyze and apply consumer choice theory using indifference curves and explain equilibrium conditions under different income and price changes.	
II	**A Demand Elasticity**	**17**
	1. Elasticity of demand 2. Types of Elasticity of demand - Price Elasticity of Demand, Income Elasticity of Demand , Substitution Elasticity of Demand 3. Price Elasticity of Demand- Perfectly Elastic Demand, Absolutely Inelastic Demand, Less Elastic Demand, More Elastic Demand, Unit Elasticity. 4. Advertisement Elasticity 5. Importance of elasticity of demand. 6. The constant elasticity of demand. 7. The Dynamic Demand function. 8. The empirical demand function. 9. Use of Elasticity in Business Decision Making	
	Unit Outcome: UO 1. Understand the concept and types of elasticity of demand and their practical relevance. UO 2 Analyze different forms of demand functions and measure elasticity for economic decisions.	
III	**Production Functions and Production Analysis**	**14**
	1. Production Decision 2. Law of Variable Proportions (Short-run production)	

Unit No.	Title of Unit & Contents	Hrs.
	3. Production function 4. Concept of ISO-quant 5. Assumption and properties of ISO-quant 6. Concept of ISO-cost and ISO-cost curve 7. The principle of diminishing marginal Rate of Technical substitution. 8. Least Cost combination of factors 9. Choice of optimal expansion path.	
	Unit Outcomes: UO **1.** Analyze production decisions by applying concepts such as production function, ISO-quants, ISO-costs, and marginal rate of technical substitution (MRTS) to determine the least-cost combination of factors. UO **2.** Evaluate optimal resource allocation strategies by identifying equilibrium conditions between ISO-quant and ISO-cost curves and explaining the expansion path of a firm.	
IV	**Cost Concept & Cost Behavior**	**16**
	1. Concept of Cost 2. Meaning of cost, 3. Types of cost 4. Real cost of production 5. Opportunity cost of Production 6. Total cost of Production 7. Average cost of production 8. Marginal cost of production 9. Fixed cost 10. Variable cost , Semi variable Cost 11. Step Ladder cost 12. Relation between Average cost and Marginal cost in short run period 13. The Modern theory of cost.	
	Unit Outcomes: UO **1.** Understand and explain various cost concepts such as total cost, average cost, marginal cost, fixed and variable cost, and	

Unit No.	Title of Unit & Contents	Hrs.
	opportunity cost in production analysis. UO **2.** Analyze the relationship between average cost and marginal cost in the short run and evaluate cost behavior using modern cost theory. .	

References resources:

1. Advanced **Economics Theory**, Ahuja H. L., S. Chand and Company, New Delhi – **2005**

3. **An Introduction to Micro Economics**, Ray N. C., Macmillan & Company India Ltd, Delhi – **1995**

4. **A Text Book and Economic Theory**, Stonier A. W. and Hague D. C., Pearson Education, Delhi – **2004**

5. **Managerial Economics Analysis**, Mehta P. L., Sultan Chand & Sons, New Delhi – **2006**

6. **Micro Economics**, Mansfield E., W. W. Norton and Company, New York – **1997**

7. **Modern Economics**, Koutsoyiannis A., Macmillan Press Ltd, London – **1980**

8. **सुक्ष्म अर्थशास्त्र**, ग. ना. झामरे, पिंपळापुरे प्रकाशन, नागपूर - **2002**

9. **सुक्ष्म अर्थशास्त्र**, तिकटे, काटे, अरुणा प्रकाशन, लातूर - **2010**

10. **सुक्ष्म अर्थशास्त्र**, प्रा. एम. आर. शिंदे, कैलाश पब्लिकेशन्स, औरंगाबाद - **2000**

11. **सुक्ष्म अर्थशास्त्र**, रायखेलकर, दामजी, विद्याबुक पब्लिकेशन्स - **2013**

12. **सुक्ष्मलक्षी अर्थशास्त्र**, डॉ. एम. एन. शिंदे, अजित पब्लिकेशन्स - **2003**

E-resources:

1. https://youtu.be/fg5oPcKO8Qk?si=y4yImR3wb-Uveaai

2. https://youtu.be/kTX4kkC2oLQ?si=8wEiJF9ZTI4i4g4G

3. https://youtu.be/65TGRq-Sjdk?si=sNgs1XisV6gQFGV6

4. https://youtu.be/nSXt5fvonn0?si=5GCBQTo9toGnJID_

5. https://youtu.be/KRrTgUEe1Lk?si=QcaNLEx1LA3BY-6W

6. https://youtu.be/FrxHgeUvf4Q?si=2JuWN-Nj8FRUZwXL

7. https://youtu.be/TB2TvLDvQMI?si=sc6y2A2NH0yL2r4U

Internal Examination Pattern :

CAT – I: Assignment

CAT – II: Fieldwork

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	1	1	1	2	2	1	1
CO2	3	2	3	1	1	1	3	2	1	1
CO3	2	3	2	1	1	1	3	2	1	1
CO4	3	3	3	1	1	2	3	2	1	1
CO5	3	2	3	1	1	2	3	2	1	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	1	0	0	2	1	1	2	1	1
CO2	3	1	0	0	2	1	1	3	2	1
CO3	2	1	0	0	3	1	1	3	2	1
CO4	3	1	0	0	3	1	2	3	2	1
CO5	3	1	0	0	3	1	3	3	2	2

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

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Empowered Autonomous Institution

Faculty of Humanities and Social Sciences

Economics

M.A. I Year (Sem. I)

Course Type: MMC-II

Course Title: Macro Economics

Course Code: 601ECO1102

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO 1. To explain the components and determinants of money supply, including high-powered money, money multiplier, and RBI's approach.
LO 2. To illustrate the process of money creation through banking systems, analyze the role of budget deficits, and open economy in money supply.
LO 3. To compare classical, Keynesian, and post-Keynesian approaches to demand for money, including contributions of Fisher, Cambridge, Friedman, Baumol, Tobin, and Patinkin.
LO 4. To analyze macroeconomic models such as IS-LM and Mundell-Fleming to understand the interaction between monetary and fiscal policies in closed and open economies.

Course Outcomes:

After completion of the course, the students will be able to-

CO 1. **Evaluate** the functioning of money supply mechanisms and the effectiveness of monetary control measures in an economy.
CO 2. **Assess** different theories of demand for money and their relevance in explaining real-world economic behavior.
CO 3. **Apply** IS-LM and extended macroeconomic models to interpret equilibrium conditions and policy impacts in various economic scenarios.
CO 4. **Critically analyze** macroeconomic policy effectiveness in an open economy using the Mundell-Fleming framework and its limitations

Unit No.	Title of Unit & Contents	Hrs.
I	**Supply of Money**	15
	1. Constituents of money supply 2. A mechanistic model of bank deposit determination 3. RBI's approach towards money supply 4. Demand determined money supply process; 5. High powered money and money multiplier; 6. Budget deficits and money supply 7. Money supply and open economy; 8. Control of money supply.	

Unit No.	Title of Unit & Contents	Hrs.
	Unit Outcomes: UO 1. **Explain and analyze** the constituents of money supply, the mechanistic model of bank deposit determination, and the role of high-powered money and money multiplier in the process of money supply. UO 2. **Evaluate and assess** the RBI's approach to money supply, including demand-determined processes, the impact of budget deficits, open economy factors, and the measures used for controlling money supply.	
II	**Demand for money**	15
	1. Classical approach for demand for money; 2. Fisher's and Cambridge versions; 3. Keynesian approach towards demand for money 4. Aggregate demand for money. 5. Post – Keynsian approaches towards demand for money 6. Friedman, Baumol, Patinkin and Tobin	
	Unit Outcome: UO 1. UO 1. **Explain and compare** the Classical (Fisher and Cambridge) and Keynesian approaches to demand for money, highlighting their assumptions, features, and implications for aggregate money demand. UO2. **Analyze and evaluate** Post-Keynesian theories of demand for money, including contributions of Friedman, Baumol, Patinkin, and Tobin, in the context of modern monetary theory and policy relevance.	
III	**Neo – Classical and Keynesian Theories**	15
	1. Neo- Classical Approach 2. Keynesian Views on interest 3. The IS-LM Model 4. Extension of IS-LM model with Govt. Sector 5. Extension of IS-LM model. with labour market and flexible prices. 6. Relative effectiveness of monetary and fiscal policies	
	Unit Outcomes: UO 1. **Explain and analyze** the **Neo-Classical approach and Keynesian theory of interest**, and **illustrate** the equilibrium determination using the **IS-LM model**. UO 2. **Evaluate and compare** the **effectiveness of monetary and fiscal policies** by **extending the IS-LM model** with government sector, labour market, and flexible price assumptions.	
IV	**Macro – Economics in an Open Economy**	15
	1. Introduction 2. Mundel Fleming model -	

Unit No.	Title of Unit & Contents	Hrs.
	3. Meaning and Concepts 4. Theories 5. Criticismon Mundel Fleming Model	
	Unit Outcomes: UO 1. UO 1. **Explain** the concepts, assumptions, and working of the Mundell–Fleming model in the context of an open economy. UO2. **Analyze** the theoretical framework and critically evaluate the limitations of the Mundell–Fleming model in explaining macroeconomic policy outcomes in an open economy.	

Learning Resources:

1. Macro Economics; Ackeley. G., Theory of Policy, Macmillan, New York(1978).
2. Macro Economics and The Real World, Blackhouse R. And Asalansi, (2 vols.) Oxford University Press, London(Eds.) (2000).
3. Macro Economics : Theory and Policy Branson, W.A., (3rd edition), Harper and Row, New York (1989).
4. Macro Economics,Dornbusch R and Fischer, Stanley, MC Graw Hill, New York(1997).
5. Macroeconomic,Hall, R.E. and G.B. Taylor , W.E. Norton, New York(1986).
6. Foundations of Modern Macro Economics, Heijdra B.J. and V.P. Fredric, Oxford University Press, New Delhi(2001).
7. Macro Economic Theory And Policy,Jha. R. Contemporary, Wiley Eastern Ltd. New Delhi(1999).
8. Advanced Macroeconomics,Romer, D.L. McGraw Hill, New York(1996).
9. Cycles of Growth and Inflation,Scarfe B.K. McGraw Hill, New York(1977).
10. Macroeconomic Analysis,Shapiro, E., Galgotia Publication, New York(1996).
11. Reconstructing Macro economics, Lance Taylor, Harvard University Press, Cambridge, Mass (2004).
12. आधुनिक स्थूल अर्थशास्त्र, प्रा. राम देशमुख, विद्याप्रकाशन, नागपूर, 2004
13. समष्टि अर्थशास्त्रीय विश्लेषण, डॉ. श्रीधर देशपांडे, हिमालया पब्लिशिंग हाऊस, 2003
14. स्थूल अर्थशास्त्र, डॉ. ग. ना. झामरे, पिंपळापुरे अॅण्ड कंपनी पब्लिशर्स, नागपुर, 2003
15. स्थूल अर्थशास्त्र, प्रा. माधव शेळके, पिंपळा पुरे अॅण्ड कंपनी पब्लिशर्स, नागपुर, 1987
16. स्थूल अर्थशास्त्र, प्रा. रायखेलकर, विद्या बुक्स पब्लिशर्स, औरंगाबाद, 2004

Internal Examination Pattern :

CAT – I :Assignment / Book Review/ Surprise Test

CAT – II Case Study/ Group Discussion/ Seminar

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	2	3	2	2	1
CO2	3	2	3	1	1	1	2	2	2	1
CO3	2	3	3	1	1	2	3	2	2	1
CO4	3	2	3	2	1	2	3	2	2	1

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	1	3	1	0	2	1	0	3	3	1
CO2	1	3	1	0	2	1	0	2	3	1
CO3	1	3	2	0	3	1	0	3	3	1
CO4	1	3	2	0	2	1	0	3	3	2

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

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Empowered Autonomous Institution

Faculty of Humanities and Social Sciences

Economics

M.A. I Year (Sem. I)

Course Type: MMC-III

Course Title: International Economics and Trade Theories

Course Code: 601ECO1103

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO 1. To Explain the meaning, Scope, Importance and effects of International Economics

LO 2. To Analyze Theories of International Trade
LO 3. To Inform about the Benefits of International Trade
LO 4. To Analyze free trade policy and protective policy

Course Outcomes:

After completion of the course the students will be able to-

CO 1. Know about the meaning, scope and structure of International Economics.
CO 2. Understand various theories of international trade.
CO 3. Familiar with the benefits of international trade and terms of trade.
CO 4. Understand the Foreign Trade Policy.
CO 5. Comprehend the free trade Policy and Protection trade Policy.

Unit No.	Title of Unit & Contents	Hrs.
I	**Introduction**	12
	1. Meaning of International Economics 2. Scope of International Economics 3. Nature of International Economics 4. Importance and effects of International Trade 5. Difference between Internal and International Trade	
	Unit Outcomes: UO 1. Students get to know the meaning, scope and structure of international economics. UO 2. Students will know the difference between internal and international trade.	
II	**Theories of International Trade**	18
	1. Mercantilist system 2. Theories of absolute advantage	

Unit No.	Title of Unit & Contents	Hrs.
	3. Comparative advantage and opportunity cost 4. Heckscher-Ohlin Theory 5. Samuelson’s factor price equalization theory 6. Stopler – Samuelsson’s theorem 7. Leontief paradox 8. Linder’s Theory of volume of Trade and demand pattern 9. Intra industry trade	
	Unit Outcome: UO 1. Students will understand various theories of international trade.	
III	**Gain’s from trade and Terms of Trade**	**16**
	1. Terms of trade-important types and determinants 2. Causes of unfavorable trems of trade to developing countries 3. Gains from trade – meaning and nature 4. Measurement of gains from trade and their distribution 5. Concept of terms of trade 6. Its uses and limitations 7. Trade as a engine of economic growth 8. Different concept of terms of trade 9. Factors affecting terms of trade 10. Production possibility curve 11. Offer curve	
	Unit Outcomes: UO 1. Students will know the terms and gains from the trade. UO 2. Students will understand the Production possibility curve and Offer curve.	
IV	**Foreign Trade Policy**	**14**
	1. Arguments in favour of free trade. 2. Arguments against free trade 3. Policy of protection – Arguments in favour of protection 4. Arguments against protective policy **5.** Tariffs and Non-tariff barriers **6.** Geopolitical Tensions and Its Effects on International Trade	
	Unit Outcomes: UO 1. Students will familiar with the free trade Policy and Protection trade Policy.	

Learning Resources:

1. International Trade, Selected Readings, Bhagwati. J. (Ed) (1981), Cambridge, University press, Massachusetts.
2. International Economics, Carbough, R.J. (1999),International Thompson Publishing, New York.
3. International Trade, Theory and Policy, Chacholiades, M. (1990), McGraw Hill, Kogakusha, Japan.

4. International Economics, Study, Guide and Work book, Dana, M.S. (2000), (5th Edition) Routledge Publishers, London.
5. International Economics, Dunna, R.M. and J.H. Mutti (2000), Rouledge, London.
6. The International Economics, Kenen, P.B. (1994), R.D. Irwin Homeword.
7. International Economics and International Economics Policy : A Reader, King, P.G. (1995), McGraw Hill International, Singapure.
8. International Economics, Soderston, BO (1991), The Macmillion Press Ltd., London.
9. International Economics, Dr. Rasal R.A.–, Success Publication.
10. International Economics, Vaish M.C. (1978) –, Oxford and IBH Publication Company.
11. International Economics, D.M. Mithani, 6th Edition 2007, Himalaya Publishing House, Mumbai.
12. International Economics, M.L.Jhingan, 6th Edition 2009, Vrinda Publication(P) Ltd. Delhi.
13. आंतरराष्ट्रीय अर्थशास्त्र, डॉ. एस. व्ही. डमढेरे, डॉ. संजयतुपे, डायमंड पब्लिकेशन(२०१५), पुणे
14. आंतरराष्ट्रीय अर्थशास्त्र,के. सी. राणा, के एन वर्मा, विशाल पब्लिकेशन(२०१५), जालनदर-दिल्ली.
15. आंतरराष्ट्रीय अर्थशास्त्र, एम. एल. झिंगल, वृंदा पब्लिकेशन प्रा.लि.,षष्टमसंस्करण२०११, दिल्ली.
16. आंतरराष्ट्रीय अर्थशास्त्र, डॉ. आर.के. दातीर,प्रा.जी.जे.लोमटे, डॉ. डी. जी. उशीर, निराली प्रकाशन(२०१८), पुणे.

E- Resources

1. https://youtu.be/_rd9pIJqUEs?si=asm1LteAej11FlLE
2. https://www.youtube.com/live/XOk5VuZlJTw?si=T2MIAScF8ApQd4lk
3. https://youtu.be/jOKVkUMOXr8?si=bVSr7NCJinxER6ps
4. https://www.youtube.com/live/rpwI5cfWYH8?si=lzyS4N3iX_LXdRdv
5. https://youtu.be/tXpFy49ezQA?si=q7fgb2Q34SDCwtv1

Internal Examination Pattern :

CAT – I: Assignment / Book Review/ Surprise Test

CAT – II Case Study/ Group Discussion/ Seminar

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	2	1	1	1	2	2	2	1
CO2	3	2	3	1	1	1	3	2	2	1
CO3	3	2	3	2	1	1	3	2	2	1
CO4	3	1	3	2	1	1	3	2	3	1
CO5	3	1	3	2	1	1	3	2	3	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	0	2	3	0	1	1	0	2	2	2
CO2	0	2	3	0	2	1	0	3	3	2
CO3	0	2	3	0	2	1	0	3	3	2
CO4	0	2	3	0	1	1	0	3	3	2
CO5	0	2	3	0	1	1	0	3	3	3

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

Rajarshi Shahu Mahavidyalaya, Latur

(Empowered Autonomous Institution)

Faculty of Humanities & Social Sciences

Department of Economics

M.A. I Year (Sem.-I)

Course Type: MEC-I

Course Title: Indian Agriculture & Rural Development

Course Code: 601ECO1201

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO1. **Understand** the basic concepts, nature, scope and importance of Agricultural Economics.

LO2. **Explain** the role of agricultural technology, sustainability and modernization in Indian agriculture.

LO3. **Analyze** agricultural productivity, land reforms, farm organization and cropping patterns in India.

LO4. **Evaluate** the impact of irrigation, technological change and policy measures on agricultural development and farmers' welfare.

Course Outcomes:

After completion of the course the students will be able to-

CO1. **Describe** the meaning, scope and importance of Agricultural Economics and its interaction with the economy and industry.

CO2. **Explain** agricultural technology, modernization, sustainable agriculture and their impact on Indian agriculture.

CO3. **Analyze** agricultural productivity, land reforms, farm organization and cropping patterns in the context of Indian agriculture.

CO4. **Evaluate** the role of irrigation, technological changes and government policies in improving agricultural productivity and addressing farmers' issues.

Unit No.	Title of Unit & Contents	Hrs.
I	**Introductions to Indian Agricultural**	**14**
	1) Meaning, Nature and Scope of Agricultural Economics 2) Importance of Agricultural Economics	

Unit No.	Title of Unit & Contents	Hrs.
	3) Interaction between Agriculture and Economy 4) Interaction between Agriculture and Industry 5) Features of traditional and modern agriculture 6) Meaning & Components of Sustainable Agriculture 7) Mechanization of Indian Agriculture	
	Unit Outcomes: UO 1. . Describe the nature, scope and importance of Agricultural Economics in the context of agricultural development. UO 2. Analyze the modernization, sustainability and mechanization in agriculture with reference to current farming systems	
II	**Agriculture technology**	**15**
	1) Meaning of Technology in Agriculture, Factors of Technology 2) Traditional Agriculture and Modern Agriculture 3) Problems of Modern Agriculture Systems 4) Benefits and Losses of Technological Changes to Indian Agriculture 5) Agriculture Biotechnology: Concepts, Techniques and Applications' 6) Sustainable Agriculture Meaning and Importance 7) Sustainable Agriculture: Strategies and Tools	
	Unit Outcome: UO 1. Explain the meaning and factors of agricultural technology. UO 2. Differentiate between traditional and modern agriculture systems.	
III	**Agricultural Productivity**	**15**
	1)Types and Meaning of Productivity 2) Causes of low Productivity 3) Measures for Increasing Agricultural Productivity 4) Form size and Productivity 5) Factors Responsible for Green Revolution 6) Land Reforms in India 7) Types of Farms Organization- Peasant, commercial Farming, state Farming, Collective Farming, Co-operative Farming, Contract Farming	
	Unit Outcomes: UO 1. Explain the meaning and types of agricultural productivity in the context of farm production. UO 2. Analyze the land reforms in India and types of farm organizations in the context of agricultural development.	
IV	**Cropping pattern in India**	**16**
	1) Cropping Pattern 2) Factor Affecting Cropping Pattern 3) Multiple Cropping Pattern	

Unit No.	Title of Unit & Contents	Hrs.
	4) Agro Based Industries 5) Meaning and Importance of Irrigation 6) Types of Irrigation 7) Sources of Irrigation 8) Advantages and disadvantages of Irrigation 9) Farmers Suicide: Causes and Remedies	
	Unit Outcomes: UO 1. Analyze the cropping pattern and factors affecting it in Indian agriculture, including multiple cropping and agro-based industries. UO 2. Evaluate the role, sources, advantages, disadvantages of irrigation and issues like farmers' suicides in the context of Indian agriculture.	

Learning Resources:

1. Lekhi, R. K., & Singh, J. (2015), *Agricultural Economics*, Kalyani Publishers.
2. Agrawal, A. N. (1980), *Indian Agriculture*, Vikas Publishing House Pvt. Ltd.
3. Singh, A. (2016), *Fundamentals of Agricultural Economics*, Himalaya Publishing House, Mumbai.
4. Bilgrami, S. A. R. (2000), *An Introduction to Agricultural Economics*, Himalaya Publishing House, Mumbai.
5. Penson, J. B. (1996), *Introduction to Agricultural Economics*, Prentice Hall.
6. Sadhu, A. N., & Singh, A. (1996), *Fundamentals of Agricultural Economics*, Himalaya Publishing House, Delhi.
7. Rudra, A. (1982), *Indian Agricultural Economics: Myth and Realities*, Allied Publishers.
8. Kahion, A. S., & Tyagi, D. S. (1983), *Agricultural Price Policy in India*, Allied Publishers Pvt. Ltd.

9. देसाई, प्रा. व भालेराव, प्रा. (1995), *कृषी अर्थशास्त्र*, निराली प्रकाशन.
10. कविमंडन, डॉ. विजय (2006), *कृषी अर्थशास्त्र*, श्री मंगेश प्रकाशन, नागपूर.
11. पंडित, प्रा. शांता व पाटील, डॉ. लीला (1986), *कृषी अर्थशास्त्राची मूलतत्त्वे*, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ, नागपूर.
12. नारखेडे, प्रा. विजय (2015), *कृषी अर्थशास्त्र*, अथर्व पब्लिकेशन्स, धुळे.
13. वाणी, प्रा. नीता (2015), *कृषी अर्थशास्त्र*, प्रशांत पब्लिकेशन्स, जळगाव.
14. पुरोहित-खांदेवाले, डॉ. वसुधा (2016), *कृषी अर्थशास्त्र*, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
15. देसाई, डॉ. व भालेराव, डॉ. (2016), *भारतीय अर्थव्यवस्था*, निराली प्रकाशन.
16. रायखेलकर, प्रा. व दामजी, डॉ. (2013), *भारतीय अर्थव्यवस्था*, विद्या बुक्स पब्लिशर्स, औरंगाबाद.

E- Resources

https://youtube.com/@ddkisan?si=ZnYpeGWYZxeAQssS

https://youtube.com/@agriculturedepartmentgom?si=CGRmlB4G_sS6H2r5

https://youtube.com/@agrowondigital?si=IAv_L1QYYVueh3_o

https://youtube.com/@indianfarmer?si=CptXZhJLl91h-r1a

https://youtube.com/@kjkrishijagran?si=akBg5pl4oFXGy54l

https://youtube.com/@greentvindia?si=y5PKKNH7__gWKVTc

https://youtube.com/@greatsahyadriyashkashid?si=ASX9RH43yG928WMJ

https://youtube.com/@krishidarshandd?si=TgswcNcgHcLXlT3M

Internal Examination Pattern :

CAT – I :Assignment / Book Review/ Surprise Test

CAT – II Case Study/ Group Discussion/ Seminar

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	2	3	1	1	2	2	3	1
CO2	3	1	3	3	1	2	3	2	3	1
CO3	2	2	3	3	1	1	3	2	3	1
CO4	3	2	3	3	2	2	3	2	3	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	0	1	0	3	1	1	0	2	3	2
CO2	0	1	0	3	1	1	0	3	3	2
CO3	0	1	0	3	2	1	0	3	3	2
CO4	0	1	0	3	2	2	0	3	3	3

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

Rajarshi Shahu Mahavidyalaya, Latur

(Empowered Autonomous Institution)

Faculty of Humanities & Social Sciences

Department of Economics

M.A. I Year (Sem.-I)

Course Type: MEC-I

Course Title: Applied Mathematical Economics

Course Code: 601ECO1201

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO1. To understand the Concept and Rules of derivatives.

LO2. To explain the Linear Economic Models and Matrix Algebra

LO3. To Analyze Derivative, Maxima and Minima

LO4. To Inform about Price and output determination in Various Market and mathematically application

Course Outcomes:

After completion of the course, the students will be able to-

CO 1. Know about the Price and output determination in Various Market and mathematically application

CO 2. Understand Linear Economic Models and Matrix Algebra.

CO 3. Familiar with the Derivative, Maxima and Minima.

CO 4. Understand meaning of elasticity of demand and its types.

CO 5. Comprehend the Meaning, Characteristics and Price and output determination in Various Market and mathematically application.

Unit No.	Title of Unit & Contents	Hrs.
I	**Mathematical Methods — 1**	14
	1. Concept of derivatives, 2. Rules of differentiation, 3. Partial derivatives. 4. Applications of simple and partial derivatives in economics.	

Unit No.	Title of Unit & Contents	Hrs.
	5. Concept of Maximum and Minimum values and its applications in business and economics. 6. Cardinal utility approach 7. Ordinal utility approach 8. Ordinal utility maximization.	
	Unit Outcomes: UO 1. Know the Cardinal and Ordinal Utility Approaches UO 2. Understand Maximisation of Utility	
II	**Mathematical Methods — 2**	**15**
	1. Concept of elasticity of demand and its application. 2. Meaning of production function and $MRTS_{LK}$ 3. Cobb – Douglas production function 4. Least cost combination of inputs 5. Concept of matrix — their types, simple operations on matrices, matrix inversion and rank of a matrix	
	Unit Outcomes: UO 1. Know the Meaning and Features of production function UO 2. Understand Producers equilibrium and Mathematically application for production function.	
III	**Mathematical Methods — 3**	**15**
	1. Concept of Input-output Analysis 2. Linear Programming : Concept of linear programme 3. Solution of LPP by graphical method 4. Application of LPP In Business Economics.	
	Unit Outcomes: UO 1. Understand Linear Economic Models and inputoutput Analysis. UO 2. Know the Concept Input-output Analysis	
IV	**Price Determination in Various Markets**	**16**
	1. Types of various market, 2. Output and price determination in Perfect competition, 3. Monopoly, 4. Monopolistic competition. 5. Oligopoly and Duopoly Market Approach - Price and output determination in Oligopoly and Duopoly. 6. Applications of mathematics in Business Economics. 7. Concept of Monopsony and Bilateral Monopoly, 8. Pricing and out-put determination in Monopsony and Bilateral Monopoly.	
	Unit Outcomes: UO 1. Understand Types of various market. UO 2. Know the Meaning, Characteristics and Price and output determination in Various Market and mathematically application.	

Learning Resources:

1. Fundamental Methods of Mathematical Economics, Chiang, A.C. (1986), McGraw Hill New York.
2. Macroeconomics, Abel, A.B.S., Bernanke and B. Menabb (1998), Addison Wesley, Massachusetts.
3. Money, Employment and inflation, Barro. R. J. and H. Grossman (1976), Oxford University Press, Oxford.
4. Contemporary Macroeconomic Theory and Policy, Jha, R. (1991), Wiley Eastern Ltd., New Delhi.
5. An Introduction to the Modern Theory of Economic Growth, Jones, H.G. (1976), McGraw Hill, Kogakusha Tokyo.
6. New Keynesian Economics (3 Vols), Mankiw, N.G. and D.Romer (Eds.) (1991), Mit Press, Cambridge, Mass
7. Linear Programming, Hadley, G. (1962), Addison Wesley Publishing Co., Massachusetts.
8. Operations Research, Hiller, F.s. and G.J. Lieberman (1985), C.B.S. New Delhi.
9. An Introduction to Operation Research, Kothari, C. R. (1992), Vikas Publishing House, New Delhi.
10. Classics in Game Theory, Kuhn Harold W. (ed) (1997), Princetion, University Press, Princetion.
11. Operations Research : Methods and Practice, Mustafi, C. K. (1992), Wiley Eastern, New Delhi.
12. Essays on Game theory, Nash, I. E.(1996), Cheltenham, U. K.

E- Resources

1. https://youtu.be/wQHvm9PJhGw?si=r_KhBZs2Xsz8DMZg
2. https://youtu.be/lSajABMkNoE?si=feBZDRZu3HRlZQL6
3. https://youtu.be/0U9fs-11zAA?si=2kGg48ua9k-PBuzA
4. https://youtu.be/d-xIYPxxd0A?si=pNZCM3Cu_AFrGG3D
5. https://youtu.be/9ma_oWuvUaU?si=Ge1B05Y-C140qYAQ
6. https://youtu.be/T7I_C_lL75I?si=ljGXk4okosUJasiF
7. https://youtu.be/wsOUbp5ywYs?si=x6fEqxXosYuaXGCg

Internal Examination Pattern :

CAT – I :Assignment / Book Review/ Surprise Test

CAT – II Case Study/ Group Discussion/ Seminar

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	2	3	2	1	1
CO2	2	3	2	1	1	2	2	2	1	1
CO3	2	3	3	1	1	2	3	2	1	1
CO4	3	3	2	1	1	1	3	2	1	1
CO5	3	3	3	1	1	2	3	2	1	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	2	1	0	0	3	1	1	3	2	1
CO2	1	1	0	0	3	1	1	2	2	1
CO3	1	1	0	0	3	1	1	3	2	1
CO4	2	1	0	0	3	1	1	3	2	1
CO5	2	1	0	0	3	1	2	3	2	2

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya, Latur

Empowered Autonomous Institution

Faculty of Humanities and social Science

Department of Economics

M.A. First Year Sem. I

Course Type: RMC

Course Title: Research Methodology

Course Code: 601ECO1301

Credits: 04 Max. Marks: 100 Lectures: 60 Hrs.

Learning Objectives

LO1. **Define and explain** the meaning, objectives, types, and significance of research, including the features of economic research.

LO2. **Identify and formulate** a research problem by applying principles and steps involved in designing an appropriate research framework.

LO3. **Demonstrate and apply** various methods of data collection (primary and secondary) and **classify and present** data using sampling, tabulation, and graphical techniques.

LO4. **Outline and prepare** a structured research report by understanding its objectives, design, and common problems in research writing.

Course outcomes

After completion of course the student will be able to-

CO 1. **Explain and evaluate** fundamental concepts, types, and significance of research in economics and related fields.

CO 2. **Analyze and design** appropriate research problems and research designs by applying scientific principles and methodologies. **Analyze and design** appropriate research problems and research designs by applying scientific principles and methodologies.

CO 3. **Apply and interpret** data collection methods and analytical tools to organize, process, and present research data effectively.

CO4. **Develop and present** a comprehensive research report demonstrating critical thinking, structured writing, and problem-solving skills.

Unit No.	Title of Unit & Contents	Hrs.
I	**Introduction**	15
	1. Meaning and Concepts of Research 2. Objectives of Research	

Unit No.	Title of Unit & Contents	Hrs.
	3. Types of Research 4. Significance of Research 5. Criteria good Research **6.** Meaning of economics research : its features and significance.	
	Unit Outcome: UO 1. **Explain** the meaning, objectives, types, and significance of research, including the concept and features of economic research. UO 2. **Analyze** the criteria of good research and **differentiate** between various types of research in the context of economic studies.	
II	**Formulation of Research Problem and Research Design**	**15**
	1. Meaning of Research Problem 2. Necessity of selecting a problem 3. Principles of formulation of problems 4. Process of formulation of Research problem 5. Research Design – Meaning, Necessity **6.** Essential elements of an ideal research design.	
	Unit Outcome: **UO1: Identify and formulate** a research problem by explaining its meaning, necessity, principles, and the systematic process of problem formulation. **UO 2: Analyze and design** an appropriate research framework by explaining the meaning, necessity, and essential elements of an ideal research design.	
III	**Methods of Collection data**	**15**
	1. Meaning and definition Data Collection 2. Primary Data 3. Observation method, interview, Questionnaire method, 4. Collection of secondary data 5. Processing and interpretation of Data **6.** Sample :- Meaning, classification, tabulation, types of sampling, satiation and graphs	
	Unit Outcomes: UO 1. **Explain and apply** different methods of data collection, including primary (observation, interview, questionnaire) and secondary data sources, in simple research situations. **UO 2: Classify, process, and interpret** data using sampling techniques, tabulation, and graphical representation for meaningful analysis.	
IV	**Research Report**	**15**
	1. Meaning of Research Report 2. Objectives of Research Report 3. Nature of Research Report 4. Design of Research Report 5. Research Paper problems in research writing report.	
	Unit Outcome: **UO 1: Explain and analyze** the meaning, objectives, nature, and design of a research report for effective academic writing.	

Unit No.	Title of Unit & Contents	Hrs.
	UO 2: Identify and evaluate common problems in research report writing and **apply** appropriate techniques to improve the quality of research papers.	

Learning Resources:

1. Research Methodology, Kotari C.R., New Age International, Publishers – 2009
2. Fundamentals of Research, Reddy R. Venkatamuni, Deep and Deep Publications, New Delhi, 2011
3. Research Methodology, Bindrawan Lal, ABP Publishers, Jaipur,2002
4. Research Methodology in Economics, Dasgupta Manas, Deep and Deep Publications, New Delhi, 2011
5. A Guide Research in Economics, Kurien C.T.(Editor), Sangam Publishers, Madras, 1973
6. संशोधन पद्धती, डॉ. गंगाधर कायदे-पाटील, चैतन्य पब्लिकेशन्स, नाशिक, 2006
7. संशोधन पद्धती,. डॉ. वा. भा. पाटील, प्रशांत पब्लिकेशन्स, पुणे, 2006
8. अर्थशास्त्रीय संशोधनपद्धती, डॉ. कुलकर्णी, डॉ. ढमढेरे, डायमंड पब्लिकेशन्स, पुणे, 2015
9. अर्थशास्त्रीय संशोधनाची तोंडओळख, प्रा. ज. फा. पाटील, कॉन्टिनेन्टल प्रकाशन, पुणे, 1979

Internal Examination Pattern :

CAT – I :Assignment / Book Review/ Surprise Test

CAT – II Case Study/ Group Discussion/ Seminar

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	3	3	2	3	3	3	3	2	2
CO2	2	3	3	2	3	3	3	3	2	2
CO3	2	3	3	2	3	3	3	3	2	2
CO4	2	3	3	2	3	3	3	3	2	3

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	1	1	1	1	3	3	1	3	3	3
CO2	1	1	1	1	3	3	1	3	3	3
CO3	1	1	1	1	3	3	1	3	3	3
CO4	1	1	1	1	3	3	1	3	3	3

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

Semester - II

Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya, Latur

Empowered Autonomous Institution

Faculty of Humanities and social Science

Department of Economics

M.A. First Year (Sem. II)

Course Type: Major IV

Course Title: Market Structure

Course Code: 601ECO2101

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO1. To understand the structure and functioning of different market forms, especially monopolistic competition, duopoly, and oligopoly.

LO2. To explain the concept and significance of product differentiation and selling costs in monopolistic competition.

LO3. To examine various models of duopoly such as Cournot, Bertrand, and Edgeworth models.

LO4. To evaluate different pricing strategies such as price leadership and cartel pricing in oligopoly markets.

.LO5. To understand modern pricing theories such as Bain's limit pricing theory and full-cost pricing theory.

Course Outcomes:

After completion of the course, the students will be able to-

CO1. Explain the structure and characteristics of monopolistic competition and its impact on market performance.

CO2. Evaluate the role of product differentiation and selling costs in shaping competitive strategies.

CO3. Apply duopoly models (Cournot, Bertrand, and Edgeworth) to understand firm behavior and market outcomes.

CO4. Examine different pricing strategies such as price leadership and cartel arrangements in oligopoly markets.

CO5: Evaluate managerial theories of firm behavior such as sales maximization and managerial discretion models.

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Unit No.	Title of Unit & Contents	Hrs.
I	**Theory of Monopolistic Competition**	16
	1. Market Firms 2. Characteristics of Market 3. Introduction of Monopolistic Competition 4. Features of monopolistic competition 5. Price and output determination, Short run and long run equilibrium of firm 6. Concept of Differentiation 7. Selling costs and their implications on equilibrium. 8. Wastes under monopolistic competition.	
	Unit Outcomes: UO 1. Analyze the structure and characteristics of monopolistic competition, including product differentiation and selling costs, and evaluate their impact on firm behavior and market outcomes. UO2. Examine and interpret short-run and long run equilibrium of firms under monopolistic competition, and critically assess issues like excess capacity and waste in such markets.	
II	**Introduction to Oligopoly**	14
	1. Meaning and Definition 2. Characteristics of Oligopoly 3. Price determination under oligopoly- 4. Price leadership- Barometric Firm, Dominant Firm, Low cost Firm 5. Collusive Oligopoly-Price determination under centralized cartel, price leadership under market sharing cartel 6. Price Rigidity in Oligopoly Markets 7. The Sweezy model of kinked demand curve	
	Unit Outcome: UO 1. **Evaluate** different forms of price leadership such as barometric firm, dominant firm, and low-cost firm models. UO 2 **Examine** collusive oligopoly practices, including price determination under centralized cartel, market-sharing cartel, and the Sweezy kinked demand curve model.	

Unit No.	Title of Unit & Contents	Hrs.
III	**Duopoly Model**	14
	1. Meaning and Definition 2. Characteristics of Duopoly 3. The Cournot model. 4. The Bertrand model. 5. The Edgeworth model. 6. The Chamberlin Model	
	Unit Outcomes: UO 1. Explain the meaning, definition, and key characteristics of duopoly market structures. UO 2 Evaluate the assumptions and outcomes of Edgeworth and Chamberlin models in explaining firm behavior under duopoly.	
IV	**Modern Theories of Pricing**	16
	1. Bain's Limit Pricing Theory – Sources of entry barriers and determination of limit prices 2. Theory of Full-Cost Pricing – Causes of determination of full cost, Hall and Hitch Analysis, Andrews' Analysis 3. Williamson's Managerial Discretion Model – Critical analysis and drawbacks of the theory 4. Baumol's Sales Maximization Model 5. Marris Model	
	Unit Outcomes: UO **1. Understand and evaluate** the Theory of Full-Cost Pricing, including the causes of full-cost determination and the contributions of Hall and Hitch, and Andrews' analysis. UO **2. Critically examine** Williamson's Managerial Discretion Model, including its assumptions, implications, and major drawbacks.	

References resources:

1. Advanced **Economics Theory**, Ahuja H. L., S. Chand and Company, New Delhi – **2005**

3. **An Introduction to Micro Economics**, Ray N. C., Macmillan & Company India Ltd, Delhi – **1995**

4. **A Text Book and Economic Theory**, Stonier A. W. and Hague D. C., Pearson Education, Delhi – **2004**

5. **Managerial Economics Analysis**, Mehta P. L., Sultan Chand & Sons, New Delhi – **2006**

6. **Micro Economics**, Mansfield E., W. W. Norton and Company, New York – **1997**

7. **Modern Economics**, Koutsoyiannis A., Macmillan Press Ltd, London – **1980**

8. **सुक्ष्म अर्थशास्त्र**, ग. ना. झामरे, पिंपळापुरे प्रकाशन, नागपूर - **2002**

9. **सुक्ष्म अर्थशास्त्र**, तिकटे, काटे, अरुणा प्रकाशन, लातूर - **2010**

10. **सुक्ष्म अर्थशास्त्र**, प्रा. एम. आर. शिंदे, कैलाश पब्लिकेशन्स, औरंगाबाद - **2000**

11. **सुक्ष्म अर्थशास्त्र**, रायखेलकर, दामजी, विद्याबुक पब्लिकेशन्स - **2013**

12. **सुक्ष्मलक्षी अर्थशास्त्र**, डॉ. एम. एन. शिंदे, अजित पब्लिकेशन्स - **2003**

E-resources:

1. https://youtu.be/fg5oPcKO8Qk?si=y4yImR3wb-Uveaai
2. https://youtu.be/kTX4kkC2oLQ?si=8wEiJF9ZTI4i4g4G
3. https://youtu.be/65TGRq-Sjdk?si=sNgs1XisV6gQFGV6
4. https://youtu.be/nSXt5fvonn0?si=5GCBQTo9toGnJID_
5. https://youtu.be/KRrTgUEe1Lk?si=QcaNLEx1LA3BY-6W
6. https://youtu.be/FrxHgeUvf4Q?si=2JuWN-Nj8FRUZwXL
7. https://youtu.be/TB2TvLDvQMI?si=sc6y2A2NH0yL2r4U

Internal Examination Pattern :

CAT – I: Assignment

CAT – II: Case Study

Mapping of POs, PSOs and COs:

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	1	1	1	3	2	1	1
CO2	3	2	3	1	1	1	3	2	1	1
CO3	2	3	2	1	1	2	3	2	1	1
CO4	3	2	3	1	1	1	3	2	1	1
CO5	3	2	3	1	1	2	3	2	1	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	1	0	0	2	1	3	3	2	1
CO2	3	1	0	0	2	1	3	3	2	1
CO3	3	1	0	0	3	1	3	3	2	1
CO4	3	1	0	0	2	1	3	3	2	1
CO5	1	1	0	0	2	1	3	3	2	2

Faculty of Humanities and social Science

Department of Economics

M.A. First Year (Sem. II)

Course Type: MMC-V

Course Title: Advanced Macro Economic Theories and Applications

Course Code: 601ECO2102

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives

LO1: Explain the concepts and components of national income accounting, including circular flow models, social accounting, and balance of payments.

LO2: Analyze various theories of consumption such as Keynesian, Absolute, Relative, Permanent Income, and Life Cycle hypotheses.

LO3: Differentiate between types and theories of inflation, including demand-pull, cost-push, and Phillips curve analysis.

LO4: Examine the stages and major theories of trade cycles and evaluate their control measures.

Course Outcomes

After completion, of course the student will be able to-

CO1: Apply national income accounting frameworks to interpret macroeconomic aggregates and economic flows.

CO2: Evaluate consumption theories to understand household behavior and income-expenditure relationships.

CO3: Assess inflation theories and policies to analyze price stability and macroeconomic performance.

CO4: Critically analyze trade cycle theories and recommend appropriate stabilization policies.

Unit No.	Title of Unit & Contents	Hrs.
I	**National Income and Accounting**	**12**
	1. Circular flow of income – two, three and four sector model 2. National Income Accounting 3. Social Accounting 4. Input and Output Accounting 5. Flow of funds Accounting **6.** Balance of Payments Accounting	
	Unit Outcome: UO 1**: Explain and illustrate** the concepts of circular flow of income in two, three, and four sector models, and **describe** the structure and components of national income accounting. UO 2. **Analyze and differentiate** various accounting frameworks including social accounting, input-output accounting, flow of funds accounting, and balance of payments accounting in the context of macroeconomic analysis.	
II	**Theories of Consumption**	**14**
	1. Keynsian psychological law of consumption 2. Implications of the law 3. Short run and long – run Consumption function. 4. Absolute Income Hypothesis 5. Relative Income Hypothesis 6. Permanent Income Hypothesis **7.** Life Cycle Hypothesis.	
	Unit Outcome: UO 1. **Explain and analyze** the Keynesian Psychological Law of Consumption and its implications by **distinguishing** between short-run and long-run consumption functions. **UO 2: Compare and evaluate** modern consumption theories including Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis, and Life Cycle Hypothesis to **interpret consumer**	
III	**Theories of Inflation**	**17**
	1. Meaning and Concepts 2. Demand Pull Inflation therory 3. Cost Push Inflation theory 4. Sectoral – Demand shift theory 5. Philips curve Analysis 6. Short run and long run Philips curves 7. Tobins modified philips Curve **8.** Control of Inflation.	
	Unit Outcomes: UO 1. **Explain and analyze** the meaning, concepts, and major theories of inflation, including demand-pull, cost-push, and sectoral demand-shift theories, to understand the causes and dynamics of inflation in an economy. UO 2. **Examine and evaluate** the Phillips Curve framework (short-run and long-run) along with Tobin's modified approach, and **assess** various measures for controlling inflation in different economic contexts.	

Unit No.	Title of Unit & Contents	Hrs.
IV	**Theories of Trade Cycles**	**17**
	1. Meaning and Concepts 2. Stages of Trade Cycles 3. Theories of Hicks 4. Goodwins theory 5. Schumpeter theory 6. Kaldors theory 7. Samuelsons theory 8. Control of Trade Cycles.	
	Unit Outcome: UO 1. **Explain and illustrate** the **meaning, concepts, and stages of trade cycles**, and **summarize** the key features of major theories proposed by Hicks, Goodwin, Schumpeter, Kaldor, and Samuelson. UO 2. **Analyze and compare** different **theories of trade cycles**, and **evaluate** the effectiveness of various measures used for the **control of trade cycles** in an economic context.	

Learning Resources:

1. Macro Economics; Theory of Policy, Ackeley. G. Macmillan, New York (1978).
2. Macro Economics and The Real World (2 vols.), Blackhouse R. And Asalansi, Oxford University Press, London (Eds.) (2000).
3. Macro Economics: Theory and Policy, Branson, W.A. (3rd edition), Harper and Row, New York (1989).
4. Macro Ecnomics, Dornbusch R and Fischer, Stanley MC Graw Hill, New York (1997).
5. Macroeconomic, Hall, R.E. and G.B. Taylor W.E. Norton, New York (1986).
6. Foundations of Modern Macro Economics, Heijdra B.J. and V.P. Fredric, Oxford University Press, New Delhi (2001).
7. Contemporary Macro Economic Theory And Policy, Jha. R, Wiley Eastern Ltd. New Delhi (1981).
8. Advanced Macroeconomics,Romer, D.L., Mc Graw Hill, New York (1996).
9. Cycles of Growth and Inflation, Scarfe B.K, Mc Graw Hill, New York (1977).
10. Macroeconomic Analysis, Shapiro, E . Galgotia Publication, New York (1996).
11. Reconstructing Macro economics, Lance Taylor, Harvard University Press, Cambridge, Mass(2004).
12. आधुनिक स्थूल अर्थशास्त्र, प्रा. राम देशमुख, विद्या प्रकाशन, नागपूर, 2004
13. समष्टि अर्थशास्त्रीय विश्लेषण, डॉ. श्रीधर देशपांडे, हिमालया पब्लिशिंग हाऊस, 2003
14. स्थूल अर्थशास्त्र, डॉ. ग. ना. झामरे, पिंपळापुरे अॅण्ड कंपनी पब्लिशर्स, नागपुर, 2003
15. स्थूल अर्थशास्त्र, प्रा. माधव शेळके, पिंपळापुरे अॅण्ड कंपनी पब्लिशर्स, नागपुर, 1987
16. स्थूल अर्थशास्त्र, प्रा. रायखेलकर, विद्या बुक्स पब्लिशर्स, औरंगाबाद, 2004

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	2	3	2	2	1
CO2	3	2	3	1	1	1	3	2	2	1
CO3	2	2	3	2	1	2	3	2	2	1
CO4	3	2	3	2	1	2	3	2	2	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	1	3	1	0	3	1	0	3	3	1
CO2	1	3	1	0	2	1	0	3	3	1
CO3	1	3	1	0	2	1	0	3	3	1
CO4	1	3	1	0	2	1	0	3	3	2

Rajarshi Shahu Mahavidyalaya, Latur

(Empowered Autonomous Institution)

Faculty of Humanities & Social Sciences

Department of Economics

M.A. I Year (Sem.-II)

Course Type:

Course Title: International Trade, Finance and Economic Institutions

Course Code:

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO1. Understand the Concept Exchange Rate and Exchange Control

LO2. Inform about the Concept Meaning, Nature and Components of Balance of Payment

LO3. Analyze various International Institutions.

LO4. Understand various Trade Policies.

LO5. Inform about Trade Policies in India and Problems of India's International debt

Course Outcomes:

After completion of the course the students will be able to-

CO1. Know the Meaning of exchange rate, Types of exchange rate, Characteristics of exchange control and Methods of exchange control.
CO2. Understand the Meaning, Nature and Components of Balance of Payments.
CO3. Analyze India's Balance of payments in planning period.
CO4. Familiar with various International Institutions such as IMF, World Bank, WTO, Asian Development Bank, BRICS, OPEC etc.
CO5. Understand the Trade problems and Policies in India and Problems of International debt.

Unit No.	Title of Unit & Contents	Hrs.
I	**Exchange Rate and Exchange Control**	16
	1) Meaning of exchange rate 2) Types of exchange rate 3) Mint parity Theory of exchange rate Determination under gold standard, 4) Purchasing Power Parity Theory 5) Meaning and Characteristics of exchange control 6) Objectives of exchange control 7) Methods of exchange control – direct and indirect	
	Unit Outcome: UO 1. Familiar with the Exchange Rate and Exchange Control.	
II	**Balance of Payments**	18
	1) Meaning of Balance of Payments	

Unit No.	Title of Unit & Contents	Hrs.
	2) Nature of Balance of Payments 3) Components of Balance of Payments 4) Difference between BoP and BoT 5) Equilibrium and disequilibrium of balance of payments 6) The process of adjustment 7) India's Balance of payments in planning period and Current Situation of India's Balance of payments 8) Causes of deficit in India's Balance of payment and effects of deficit.	
	Unit Outcome: UO 1. Understand the Meaning of Balance of Payments, Nature and Components of Balance of Payments, India's Balance of payments in planning period.	
III	**International Institutions**	**16**
	1) The International Monetary Fund 2) The World Bank 3) Optimum currency area 4) WTO and its effects on Indian economy 5) The Asian Development Bank 6) The South Asian Association for Regional Co-operation 7) BRICS 8) OPEC	
	Unit Outcomes: UO 1. Know various International Institutions such as IMF, World Bank, WTO, Asian Development Bank, BRICS, OPEC etc.	
IV	**Trade Policies and International debts of India**	**14**
	1) Trade problems and Policies in India 2) Recent change in the direction and composition of trade and it's implications 3) Instruments of export promotion **4)** Problems of India's International debt	
	Unit Outcome: UO 1. Understand the trade policies and debt management of India.	

Learning Resources:

1. International Trade, Selected Readings, Bhagwati. J. (Ed) (1981), Cambridge, University press, Massachusetts.
2. International Economics, Carbough, R.J. (1999),International Thompson Publishing, New York.
3. International Trade, Theory and Policy, Chacholiades, M. (1990), McGraw Hill, Kogakusha, Japan.
4. International Economics, Study, Guide and Work book, Dana, M.S. (2000), (5^{th} Edition) Routledge Publishers, London.

5. International Economics, Dunna, R.M. and J.H. Mutti (2000), Rouledge, London.
6. The International Economics, Kenen, P.B. (1994), R.D. Irwin Homeword.
7. International Economics and International Economics Policy : A Reader, King, P.G. (1995), McGraw Hill International, Singapure.
8. International Economics, Soderston, BO (1991), The Macmillion Press Ltd., London.
9. International Economics, Dr. Rasal R.A.–, Success Publication.
10. International Economics, Vaish M.C. (1978) –, Oxford and IBH Publication Company.
11. International Economics, D.M. Mithani, 6th Edition 2007, Himalaya Publishing House, Mumbai.
12. International Economics, M.L.Jhingan, 6th Edition 2009, Vrinda Publication(P) Ltd. Delhi.
13. आंतरराष्ट्रीय अर्थशास्त्र, डॉ. एस. व्ही. डमढेरे, डॉ. संजयतुपे, डायमंड पब्लिकेशन(२०१५), पुणे
14. आंतरराष्ट्रीय अर्थशास्त्र,के. सी. राणा, के एन वर्मा, विशाल पब्लिकेशन(२०१५), जालनदर-दिल्ली.
15. आंतरराष्ट्रीय अर्थशास्त्र, एम. एल. झिंगल, वृंदा पब्लिकेशन प्रा.लि.,षष्टमसंस्करण२०११, दिल्ली.
16. आंतरराष्ट्रीय अर्थशास्त्र, डॉ. आर.के. दातीर,प्रा.जी.जे.लोमटे, डॉ. डी. जी. उशीर, निराली प्रकाशन(२०१८), पुणे.

E- Resources

1. https://youtu.be/9ns_-hK9Bfc?si=N_c-fRiXFikhzQh4
2. https://youtu.be/gA95Nplx_oQ?si=Mh-cDVMWyvNY8zog
3. https://youtu.be/GDeARNWseu0?si=a-k-WYgnAL27zIb3
4. https://youtu.be/vKL82UChmY8?si=hQoi8rGCIJQwaoAh
5. https://www.youtube.com/live/MccpfY3MKc0?si=lYnG-HLG70HiMyxD
6. https://youtu.be/gZEdRMVm0WU?si=axOFHc7NesmRl0Se

Internal Examination Pattern :

CAT – I :Assignment / Book Review/ Surprise Test

CAT – II Case Study/ Group Discussion/ Seminar

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	1	1	1	3	2	2	1
CO2	3	2	3	1	1	1	3	2	2	1
CO3	3	2	3	1	1	1	3	2	2	1
CO4	3	1	3	2	1	1	3	2	3	1
CO5	3	1	3	2	1	1	3	2	3	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	0	2	3	0	2	1	0	3	3	2
CO2	0	2	3	0	2	1	0	3	3	2
CO3	0	2	3	0	2	1	0	3	3	2
CO4	0	2	3	0	1	1	0	3	3	3
CO5	0	2	3	0	1	1	0	3	3	3

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

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Faculty of Humanities & Social Sciences

Department of Economics

M.A. I Year (Sem.-II)

Course Type: MEC-II

Course Title: Agricultural Economics: Credit, Marketing and Global Perspectives

Course Code: 601ECO2201

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO1. **Understand** the sources, structure and role of agricultural credit and crop insurance in India

LO2. **Explain** the functioning, challenges and institutional framework of agricultural marketing in India.

LO3. **Analyze** agricultural price policy, price fluctuations and their implications for farmers and markets.

LO4. **Evaluate** the impact of globalization, trade policies, food security measures and employment issues on Indian agriculture.

Course Outcomes:

After completion of the course the students will be able to-

CO1. **Identify** different sources of agricultural credit and **assess** the role of crop insurance in improving farm income and risk management.

CO2. **Explain** agricultural marketing systems, institutional mechanisms and government initiatives in improving market efficiency.

CO3. **Analyze** agricultural price policy, price stabilization mechanisms and the effects of price fluctuations on farmers.

CO4. **Evaluate** the effects of globalization, trade policies, food security measures and employment patterns on Indian agriculture.

Unit No.	Title of Unit & Contents	Hrs.
I	**Agricultural Credit in India**	**15**
	1) Need for agricultural credit, 2) Types of Agricultural Credit 3) Sources of Agricultural Credit	

Unit No.	Title of Unit & Contents	Hrs.
	4) Advantages and Disadvantages of Non-Institutional Sources 5) Institutional Sources of Agricultural Credit- NABARD, PACS, DCCB, SCB, Land Development Banks, RRB's, 6) Advantages and Disadvantages of Co-operative Credit Societies in India 7) Advantages and Disadvantages of Commercial Banks 8) Crop Insurance: Importance and implementation	
	Unit Outcomes: UO 1. **Identify** different **sources of agricultural credit** in the **Indian agricultural sector**. UO 2. **Evaluate** the **effectiveness of agricultural credit and crop insurance schemes** in **improving farm income and security.**	
II	Agricultural Marketing in India	**15**
	1) Agricultural Marketing, 2) Forms of Agricultural Marketing 3) Features of Sound Agricultural Marketing 4) Importance of Agricultural Marketing 5) Problems in Agricultural Marketing 6) Measures of Agricultural Marketing: Cooperative Marketing, Regulated Markets 7) Govt. Plans, TRIFAD, NAFED, 8) Agricultural Export Zone	
	Unit Outcome: UO 1. **Describe** the **functions and role of agricultural marketing institutions** such as **TRIFED, NAFED, and AEZ** in **India's agricultural sector**. UO 2. **Evaluate** the **impact of agricultural marketing reforms and institutions** on **agricultural development in India.**	
III	**Agricultural Price Policy in India**	**15**
	1) Agricultural Prices 2) Causes of fluctuations in Agricultural Prices 3) Effects of fluctuations in Agricultural Prices 4) Objectives and measures for Price Stabilization of Agricultural Products 5) Commission for Agricultural Cost and Prices 6) Types of Agricultural Prices 7) Cobweb Theorem	

Unit No.	Title of Unit & Contents	Hrs.
	8) Concept of Surplus Labour 9) Causes, Uses and limitations of Surplus Labour	
	Unit Outcomes: UO 1. **Analyze** the **role and impact of Agricultural Price Policy** on **farmers and agricultural markets in India** UO 2. **Describe** the **Cobweb Theorem** and its **application in agricultural price fluctuations.**	
IV	**Globalization and Indian Agriculture**	**15**
	1) Concept of Globalization 2) Role of international trade in agricultural development 3) World Trade Organization and Indian agriculture 4) Agreement on Agriculture (AoA) 5) Concept of Food Security 6) Public Distribution System 7) Concept of Unemployment: Seasonal and Disguised 8) Concept of Marketable Surplus	
	Unit Outcomes: UO 1. **Describe** the **concept of globalization** and the **impact of WTO agreements** on **Indian agriculture.** UO 2. **Evaluate** the **role of food security measures and PDS** in ensuring **nutritional security and poverty reduction in India.**	

Learning Resources:

1. Lekhi, R. K., & Singh, J. (2015), *Agricultural Economics*, Kalyani Publishers.
2. Agrawal, A. N. (1980), *Indian Agriculture*, Vikas Publishing House Pvt. Ltd.
3. Singh, A. (2016), *Fundamentals of Agricultural Economics*, Himalaya Publishing House, Mumbai.
4. Bilgrami, S. A. R. (2000), *An Introduction to Agricultural Economics*, Himalaya Publishing House, Mumbai.
5. Penson, J. B. (1996), *Introduction to Agricultural Economics*, Prentice Hall.
6. Sadhu, A. N., & Singh, A. (1996), *Fundamentals of Agricultural Economics*, Himalaya Publishing House, Delhi.
7. Rudra, A. (1982), *Indian Agricultural Economics: Myth and Realities*, Allied Publishers.
8. Kahion, A. S., & Tyagi, D. S. (1983), *Agricultural Price Policy in India*, Allied Publishers Pvt. Ltd.
9. देसाई, प्रा. व भालेराव, प्रा. (1995), *कृषी अर्थशास्त्र*, निराली प्रकाशन.
10. कविमंडन, डॉ. विजय (2006), *कृषी अर्थशास्त्र*, श्री मंगेश प्रकाशन, नागपूर.

11. पंडित, प्रा. शांता व पाटील, डॉ. लीला (1986), *कृषी अर्थशास्त्राची मूलतत्त्वे*, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ, नागपूर.
12. नारखेडे, प्रा. विजय (2015), *कृषी अर्थशास्त्र*, अथर्व पब्लिकेशन्स, धुळे.
13. वाणी, प्रा. नीता (2015), *कृषी अर्थशास्त्र*, प्रशांत पब्लिकेशन्स, जळगाव.
14. पुरोहित-खांदेवाले, डॉ. वसुधा (2016), *कृषी अर्थशास्त्र*, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
15. देसाई, डॉ. व भालेराव, डॉ. (2016), *भारतीय अर्थव्यवस्था*, निराली प्रकाशन.
16. रायखेलकर, प्रा. व दामजी, डॉ. (2013), *भारतीय अर्थव्यवस्था*, विद्या बुक्स पब्लिशर्स, औरंगाबाद.

E- Resources

https://youtube.com/@ddkisan?si=ZnYpeGWYZxeAQssS

https://youtube.com/@agriculturedepartmentgom?si=CGRmlB4G_sS6H2r5

https://youtube.com/@agrowondigital?si=IAv_L1QYYVueh3_o

https://youtube.com/@indianfarmer?si=CptXZhJLl91h-r1a

https://youtube.com/@kjkrishijagran?si=akBg5pl4oFXGy54l

https://youtube.com/@greentvindia?si=y5PKKNH7__gWKVTc

https://youtube.com/@greatsahyadriyashkashid?si=ASX9RH43yG928WMJ

https://youtube.com/@krishidarshandd?si=TgswcNcgHcLXlT3M

Internal Examination Pattern :

CAT – I :Assignment / Book Review/ Surprise Test

CAT – II Case Study/ Group Discussion/ Seminar

Mapping of POs, PSOs and COs:

COs/POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	3	1	1	3	2	3	1
CO2	3	2	3	3	1	1	3	2	3	1
CO3	2	2	3	3	2	2	3	2	3	2
CO4	3	2	3	3	2	2	3	2	3	2
CO5	3	2	3	3	2	2	3	2	3	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	0	1	0	3	2	1	0	3	3	2
CO2	0	1	0	3	2	1	0	3	3	2
CO3	0	1	0	3	2	2	0	3	3	3
CO4	0	1	1	3	2	2	0	3	3	3
CO5	0	1	1	3	2	2	0	3	3	3

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation.

Rajarshi Shahu Mahavidyalaya, Latur

(Empowered Autonomous Institution)

Faculty of Humanities & Social Sciences

Department of Economics

M.A. I Year (Sem.-II)

Course Type:

Course Title: Statistical Methods for Data Analysis

Course Code: 601ECO2201

Credits: 04 **Max. Marks: 100** **Lectures: 60 Hrs.**

Learning Objectives:

LO1. To Understand Concept Probability and Rules of Probability

LO2. To Inform about the Concept of Binomial distribution and its Fitting

LO3. To Analyze Poisson distribution and Normal distribution.

LO4. To Evaluate the Meaning and types of hypothesis.

LO5. To Inform about Analysis of Variance.

LO6. To Introduce the Meaning and Characteristics of regression coefficient.

Course Outcomes:

After completion of the course the students will be able to-

CO 1. Know about the Concept of Probability and addition and multiplication theory of Probability

CO 2. Understand Theoretical distributions of Probability.

CO 3. Familiar with the various statistical hypothesis test

CO 4. Understand meaning of Meaning and types of hypothesis

CO 5. Comprehend the Meaning, Characteristics of regression coefficient and estimation of regression coefficient.

Unit No.	Title of Unit & Contents	Hrs.
I	**Introduction to Probability**	15
	1. Concept of Probability, 2. Classical and empirical definition of Probability 3. Meaning of event, 4. Types of event. 5. Laws of Addition Theory of Probability 6. Laws Multiplication Theory of Probability	

Unit No.	Title of Unit & Contents	Hrs.
	Unit Outcomes: UO 1. Identify the Concept of Probability. UO 2. Evaluate probability in Addition and Multiplication	
II	**Theoretical distributions of Probability**	15
	1. Introduction 2. Binomial distribution: - Meaning, 3. Characteristics of Binomial distribution, 4. Fitting of Binomial distribution 5. Poisson distribution: - Meaning, 6. Characteristics of Poisson distribution, 7. Fitting of Poisson distribution, 8. Mean and variance of Poisson distribution. 9. Normal Distribution:- Meaning 10. characteristics of normal Distribution, 11. application of the normal distribution	
	Unit Outcomes: UO 1. know the Meaning and Characteristics of Binomial distribution UO 2. understand how to Fitting of Binomial distribution, Poisson distribution and application of the normal distribution	
III	**Hypothesis**	15
	1. Hypothesis:- Meaning and types of hypothesis 2. Continuous Distribution, 3. Students "t" distribution, 4. Chi-Squares (x^2) distribution, 5. "F" distribution, 6. Analysis of Variance (ANOVA)	
	Unit Outcomes: UO 1. Evaluate the Meaning and types of hypothesis UO 2. Understand t test, x^2 test, F test and Analysis of Variance.	
IV	**Regression Analysis**	15
	1. Meaning of simple regression, 2. Characteristics of regression coefficient, 3. Regression line and equation testing for significance of regression equation 4. Estimation of regression coefficient.	
	Unit Outcomes: UO 1. Analyze the Meaning and Characteristics of regression coefficient UO 2. Understand how to estimation of regression coefficient.	

Learning Resources:

2. Mathematical Analysis for Economists, Allen, R.G.D. (1974), Macmilian Press, London.
3. Applied general statistics, Croxfon, F.E. Cowden D.J. and Kleins (1973), prentice Hall, New Delhi.
4. Fundamentals and applied statistics, Gupta, S.C. and Kapoor V.K. (1993), S.Chand & Sons; New Delhi.
5. Theory and problems of statistics, Speigal, M.R. (1992), McGraw Hill Book,London.
6. Statistics, M.C. Sukla, S.S. Gulshan, , S.Chand & Company Ltd., New Delhi.
7. Statistical Methods, Gupta S.C.
8. Statistical Methods, Gupta S.P.
9. मूलभूत सांख्यिकी, प्रा. राम देशमुख, विद्या प्रकाशन, नागपूर.

E- Resources

1. **https://youtu.be/xijuPDB4lAQ?si=PSxjQLeARyRAuu0Z**
2. **https://youtu.be/ZKkiCC6uCaU?si=xPdCZjlJzSiI-mAg**
3. **https://youtu.be/yUJcOXkVbNA?si=16nqegDfik1l1UI5**
4. **https://youtu.be/arHKUMbsh9k?si=xUj21SsEGBA1q57**
5. **https://youtu.be/wscb2XfWI1Q?si=7APGiZquMFx1Iwkg**

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CO2	2	3	3	1	2	3	3	2	1	1
CO3	2	3	3	1	3	3	3	2	1	1
CO4	2	3	3	1	3	3	3	2	1	2
CO5	2	3	3	1	3	3	3	2	1	2

COs/POs & PSOs	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	1	1	0	0	3	3	0	3	2	1
CO2	1	1	0	0	3	3	0	3	2	1
CO3	1	1	0	0	3	3	0	3	2	1
CO4	1	1	0	0	3	3	0	3	2	2
CO5	1	1	0	0	3	3	0	3	2	2

Scale : 3 = High, 2 = Moderate, 1 = Low, 0 = No correlation

Extra Credit Activities

Sr. No.	Course Title	Credits	Hours T/P
1	MOOCs	Min. of 02 credits	Min. of 30 Hrs.
2	Certificate Courses	Min. of 02 credits	Min. of 30 Hrs.
3	IIT Spoken English Courses	Min. of 02 credits	Min. of 30 Hrs.

Guidelines:

Extra -academic activities

1. All extra credits claimed under this heading will require sufficient academic input/ contribution from the students concerned.
2. Maximum 04 extra credits in each academic year will be allotted.
3. These extra academic activity credits will not be considered for calculation of SGPA/CGPA but will be indicated on the grade card.

Additional Credits for Online Courses:

1. Courses only from SWAYAM and NPTEL platform are eligible for claiming credits.
2. Students should get the consent from the concerned subject Teacher/Mentor/Vice Principal and Principal prior to starting of the course.
3. Students who complete such online courses for additional credits will be examined/verified by the concerned mentor/internal faculty member before awarding credits.
4. Credit allotted to the course by SWAYAM and NPTEL platform will be considered as it is.

Additional Credits for Other Academic Activities:

1. One credit for presentation and publication of paper in International/National/State level seminars/workshops.
2. One credit for measurable research work undertaken and field trips amounting to 30 hours of recorded work.
3. One credit for creating models in sponsored exhibitions/other exhibits, which are approved by the concerned department.
4. One credit for any voluntary social service/Nation building exercise which is in collaboration with the outreach center, equivalent to 30 hours
5. All these credits must be approved by the College Committee.

Additional Credits for Certificate Courses:

1. Students can get additional credits (number of credits will depend on the course duration) from certificate courses offered by the college.
2. The student must successfully complete the course. These credits must be approved by the Course Coordinators.
3. Students who undertake summer projects/ internships/ training in institutions of repute through a national selection process, will get 2 credits for each such activity. This must be done under the supervision of the concerned faculty/mentor.

Note:

1. The respective documents should be submitted within 10 days after completion of Semester End Examination.
2. No credits can be granted for organizing or for serving as office bearers/ volunteers for Inter-Class / Associations / Sports / Social Service activities.
3. The office bearers and volunteers may be given a letter of appreciation by the respective staff coordinators. Besides, no credits can be claimed for any services/ activities conducted or attended within the college.
4. All claims for the credits by the students should be made and approved by the mentor in the same academic year of completing the activity.
5. Any grievances of denial/rejection of credits should be addressed to Additional Credits Coordinator in the same academic year.
6. Students having a shortage of additional credits at the end of the third year can meet the Additional Credits Coordinator, who will provide the right advice on the activities that can help them earn credits required for graduation.

Examination Framework

Theory:

40% Continuous Assessment Tests (CATs) and 60% Semester End Examination (SEE)

Practical:

50% Continuous Assessment Tests (CATs) and 50% Semester End Examination (SEE)

Course	Marks	CAT & Mid Term Theory				CAT Practical		Best Scored CAT & Mid Term	SEE	Total
1	2	3				4		5	6	5 + 6
		Att.	CAT I	Mid Term	CAT II	Att.	CAT			
DSC/DSE/ GE/OE/Minor	100	10	10	20	10	-	-	40	60	100
DSC	75	05	10	15	10	-	-	30	45	75
Lab Course/AIPC/ OJT/FP/SEC (Science & Technology)	50	-	-	-	-	05	20	-	25	50
VSC/SEC/ AEC/VEC/CC	50	05	05	10	05	-	-	20	30	50

Note:

1. All Internal Exams are compulsory
2. Out of 02 CATs best score will be considered
3. Mid Term Exam will be conducted by the Exam Section
4. Mid Term Exam is of Objective nature (MCQ)
5. Semester End Exam is of descriptive in nature (Long & Short Answer)
6. CAT Practical (20 Marks): Lab Journal (Record Book) 10 Marks, Overall Performance 10 Marks