Courses of Studies
(Under CBCS)

For B.A./B.Sc. (Honours) Programme in Economics

(Syllabus of Courses Effective from the Academic Year: 2022-23)

PARISHKAR COLLEGE OF GLOBAL EXCELLENCE
(AUTONOMOUS)

Faculty Members

Dr. Sunita Sharma

Ms. Aneesha Jain

Bachelor of Arts/Science (Honours course)

	Semester I	
101	English/Hindi Communication	Ability Enhancement: Compulsory
102	Introductory Microeconomics-I	Core
103	Mathematical Methods for Economics-I	Core
104	Indian economy/Principles of Microeconomics-I	Generic Elective
	Semester II	
201	Environmental Science	Ability Enhancement: Compulsory
202	Introductory Macroeconomics-I	Core
203	Mathematical Methods for Economics-II	Core
204	Rajasthan Economy/ Principles of Macroeconomics-I	Generic Elective
	Semester III	
301	Intermediate Microeconomics-I	Core
302	Intermediate Macroeconomics –I	Core
303	Statistical Methods for Economics	Core
304	Data Analysis & Computer Application/G.I.A-I	Skill Enhancement Course
305	Principles of Microeconomics-II	Generic Elective
	Semester IV	
401	Intermediate Microeconomics-II	Core
402	Intermediate Macroeconomics –II	Core
403	Introductory Econometrics	Core
404	Banking and Financial market(Share market survey)/G.I.A	Skill Enhancement Course
405	Principles of Macroeconomics-II	Generic Elective
	Semester V	
501	Indian Economy-I	Core
502	Development Economics-I	Core
503	• Economics of Health and education • Applied Econometrics-I • Research Methodology • Money Banking and Financial Markets-I	Discipline-Specific elective-I (any one)
504	• Environmental Economics-I • International Economics • Economic History of India	Discipline-Specific Elective-II (any one)
	Semester VI	
601	Indian Economy-II	Core
602	Development Economics-II	Core
603	• Demography • Applied Econometrics-II • Agriculture Economics • Money Banking and Financial Markets-II	Discipline-Specific Elective-I (any one)
604	• Environmental Economics-II • Labour Economics • Dissertation	Discipline-Specific Elective-II (any one)

Semester 1

Introductory Microeconomics

Course Description

This course is designed to expose the students to the basic principles of Microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyse real-life situations.

Unit 1. Exploring the subject matter of Economics

1. Why study economics? How people make decisions. Types and problems of an economy.
2. Problem of scarcity and choice; The question of what to produce, how to produce and how to distribute output; Science of economics; The basic competitive; price, property rights and profits; Incentives and information; Rationing; opportunity sets; production possibility frontier; economic systems. Illustration through current situations
3. Scope, nature, and method of Microeconomics-reading and working with graphs. Difference between micro, and macroeconomics. Methodology of economics; Static, Comparative and Dynamic.
4. Role of Assumptions; Economic models; Why economists disagree?

Unit 2. Supply and Demand: How Markets Work, Markets and Welfare

1. Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve; market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together; how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumer surplus; producer surplus and the efficiency of the markets.
2. Elasticity and its application of the concepts of elasticity of demand.
3. Controls on prices; taxes and the costs of taxes; consumer surplus; producer surplus-Current. Efficiency of the markets in real time

Unit 3. The Households

1. The consumption decision-budget constraint, consumption and income/price changes, demand for all other goods and price changes.
2. Description of preferences (representing preferences with indifference curves);
3. Derivation of demand curve from indifference curve and budget constraint and Application of Indifference Curves; revealed preference approach, Inter-temporal choice
4. Properties of Indifference curve, consumer 's optimum choice; income and substitution effects; labour supply and savings decision- choice between leisure and consumption. Ordinary and Compensated demand curves.

Unit 4. The Firm and Perfect Market Structure

1. Behaviour of profit maximising firms and production process, production functions, law of variable proportions, law of returns and returns of scale; choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition.
2. Costs: Types of costs, costs in the short run, costs in the long run, revenue and profit maximizations, minimizing losses, short run industry supply curve, economies and diseconomies of scale, long run adjustments.

Unit 5. Imperfect Market Structure

1. Monopoly and anti-trust policy.
2. Government policies towards competition
3. Imperfect competition: Oligopoly models.

Unit 6. Input Markets

1. Labour and Land Markets - basic concepts (derived demand, productivity of an input, marginal productivity of labour, marginal revenue product)
2. Demand for labour; input demand curves; shifts in input demand curves
3. Competitive labour markets
4. Labour markets; and labour markets and public policy

Practical work:
1. Welfare effects of monopoly: Case study of India and world.
2. Using Excel, Word and Corel draw for making graphs.
3. Case study will be prepared including the items on which MSP is given and analysing the weakness involved in it.
4. Demand and supply curves will be prepared using M.S. word or Excel.
5. Case study based on different sectors
6. Comparative study of cardinal and ordinal approach. Real life example may be used in the brain storming session
7. Case study on Can money buy happiness.
8. Research paper: Recent Advances in Consumer Behaviour Theory
9. The case study on cost structure and production function of a small industry (your own hypothetical business or college-based study) and probable cost cutting facilities available.
10. Case study: Importance in decision making.

Readings:

1. 1. Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc., 8th
2. Edition, 2007.
3. 2. N. Gregory Mankiw, Economics: Principles and Applications, India edition by South
4. Western, a part of Cengage Learning, Cengage Learning India Private Limited, 4th
5. edition, 2007.
6. 3. Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norton & Company, Inc.,
7. New York, International Student Edition, 4th Edition, 2007.
8. Koutsoyiannis, A. (1999), Modern Microeconomics, Macmillan.
9. Varian, H.R. (2000), Intermediate Microeconomics: A Modern Approach, East-west Press, New Delhi.
10. Lipsey, R.G. (Latest edition), An Introduction to positive Economics.
11. Stonier, A.W. and D.C. Hague (1972), A Textbook of Economics Theory, ELBS and Longman Group, London.
12. Robert J. Pindyck &: Daniel L. Rubinfeld, Microeconomics, Pearson latest Edition.
13. Leftwich, Richard Henry: Introduction to Microeconomics
14. C.S. Barla, Microeconomics.

MATHEMATICAL METHODS IN ECONOMICS-I

Course Description

This is the first of a compulsory two-course sequence. The objective of this sequence is to

Transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics, and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at

which the material is to be taught is indicated by the contents of the prescribed textbook.

Unit 1: Preliminaries:

1. Logic and proof techniques; sets and set operations; relations; functions and their properties.
2. Number systems, Convex, concave, quasi concave, homogeneous and homothetic functions

Unit 2: Functions of one real variable:

1. Graphs; elementary types of functions: quadratic, polynomial, power, exponential, implicit function, logarithmic; sequences and series: convergence, algebraic properties, and applications.
2. Continuous functions; characterizations, properties with respect to various operation and applications; differentiable functions; characterizations, properties with respect to various operations and applications.
3. Second and higher order derivatives: properties and applications

Unit 3: Single-variable optimization

1. Geometric properties of functions: convex functions, their characterizations, and applications.
2. Local and global optima: geometric characterizations using calculus and applications.

Unit 4: Integration of functions:

1. Applications

Unit 5: Difference and Differential equations:

1. Difference and Differential equations (First and second order) and their applications

Readings:

1. K. Sydsaeter and P. Hammond, Mathematics for Economic analysis, Pearson Educational Asia: Delhi, 2002.
2. C.P. Simon and L.E. Blume, mathematics for Economists.
3. A.C. Chiang, mathematical economics, McGraw Hill, 1995
4. Intrilligator, Mathematical Optimization and Economic theory (1971)

Indian Economy (Generic Elective-I)

Unit 1 Economic Development since Independence

1. Basic concepts and definition of economy and economics. Uses and transfer of Resources. Distributive effects
2. Features of Indian Economy –promotional and retarding factors.
3. Growth and Development under different policy regimes-goals, constraints, institutions, and policy framework; Regional disparities in growth rates. Developing grass root organizations for development-Panchayats, NGOs, and pressure groups.
4. Sector-Wise growth profile and changes of its contribution in GDP, Structural changes in employment, saving and investment.
5. An assessment of performance-Sustainability and regional contrasts.
6. Five-year plans: Objectives, sources of plan financing, an assessment of performance of different plans. NITI Aayog
7. National income: Trends of national income, investment, savings and capital formation; relation between savings rate, growth rate and ICOR.

Unit 2. Population and Human Development

1. Demographic transition theory and dynamics of population in India; age, sex composition and development issues. Interstate comparison.
2. Human development-Measurement: HDI, Happiness index etc. Interstate comparison. Concepts of HPI/MPI, PQLI, GEM and GDI/GII. India's ranking in various indices.
3. Education-Literacy rate, enrolment ratio- gender discrimination in enrolment- trend in public expenditure for education, right to education and education policies. Interstate comparison. New Education Policy (N.E.P).
4. Health as an indicator of human development, life expectancy, child health, Infant mortality rate; Nature, causes and consequences of malnutrition, Hunger index and other policies of child and family welfare. Interstate comparison. Role of health in economy.
5. Poverty- definitions, causes, distribution- deprivation, income versus calories, measurement of poverty, issues of poverty, status of poverty, international inequalities, eradication programmes, poverty and resource policy, tribal rights and issues, livelihood mission.

Unit 3. Growth and Distribution

1. **<u>Agriculture:</u>** Crops, Revolutions (green, white, blue and yellow). Role of agriculture in the Indian Economy- Land reforms, Cropping pattern, Production and Productivity of crops- Reasons for the low crop productivity- resource Poor farmers, small holdings, limited irrigation facilities, limited access to institutional sources of credit, Agricultural credit agencies, imbalance in the use of pesticides and fertilisers, limited access to agricultural machinery and marketing pattern. New agriculture policy. Agriculture Subsidy and PDS.
2. **<u>Industry:</u>** Role of industrialisation in the Indian Economy, importance, and problems of large, small, and medium scale industries in India and their remedial measures. New industrial policy, financial institutions providing short term and long-term industrial credit. Key industries, industrial sickness, the different committees, new disinvestment policy. Easy of doing business.
3. **<u>Service:</u>** Role of service sector in the economy- Banking, insurance, transport and communication, trade, hotels, and restaurants.
4. Pre and Post L.P.G. reforms.

Unit 4. External Sector

1. Structure and Direction of foreign trade: Composition and direction of trade.
2. Critical appraisal of EXIM and FEMA.
3. Foreign capital and MNC's in India. New foreign trade policy
4. Globalisation of Indian economy and its impact on different sectors of the economy.
5. W.T.O. and Balance of payments.

Practical Work:

1. Review of article on sector wise contribution of different states.
2. Review of article on changed portfolio of citizens of India.
3. Report will be prepared by the students on the comparison of performance of different states for accomplishing the targets of SDG
4. Case study will be prepared including the items on which MSP is given and analysing the weakness involved in it.
5. Power point Presentation through graphs of different concepts of National income
6. Assignment on interstate comparison
7. Chart paper will be prepared by the students showing the top 10 rankers in different indices
8. Outcome of different policies implemented by the states in the sphere of health, education, and poverty alleviation
9. Review of article on the topic role of health in economy.
10. Student will write an article on 'Apna Gaanv', an awareness campaign on the agricultural practises of their village.
11. Case study on critical evaluation of MNC operation in India.

Readings:

1. Indian economy- Mishra Puri, Dutt Sundaram
2. Indian economy: Performance and Policies- Uma Kapila
3. Indian economy Since independence- Uma Kapila
4. Economic survey of India and Economic review of Rajasthan
5. https://www.rbi.org.in/Scripts/AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20Economy
6. https://www.indiabudget.gov.in/economicsurvey/
7. https://www.indiabudget.gov.in/
8. http://rchiips.org/nfhs/
9. https://www.cmie.com/

Semester 2
Introductory Macroeconomics

Course Description

This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.

Unit 1   Introduction to Macroeconomics and National Income Accounting:

1. Macroeconomics and Microeconomics. The concept of Stock-flow and other macroeconomic variables
2. Nature and scope of macroeconomics. Basic issues studied in Macroeconomic, Trends in Macroeconomics
3. Concepts of GDP and national Income. Measurement of   National Income and related aggregates with reference to Indian economy. Change in methodology of GDP calculation.
4. Circular flow of national income: Two, three and four sector economy.
5. Nominal and real Income. CPI and GDP deflator.
6. Green Accounting price indexes.
7. Balance of payments: current and capital accounts.

Unit 2   Money
1. Concept of money, Functions of money, money substitutes (Near money, credit card, digital currency);
2. Quantity theory of money; Determination of money supply and demand, High powered money and money multiplier, Credit creation.
3. Tools of Monetary policy

Unit 3 Inflation

1. Model of Business cycle. Inflation and its social costs. Inflation with reference to India and World.
2. Types of inflation: Stagflation, Hyperinflation.
3. Measures to control inflation.

Unit 4 The Closed Economy in the Short Run

1. Actual and Potential GDP
2. Aggregate expenditure; consumption function investment function; equilibrium GDP; Concepts of MPS, APS, MPC, APC; Autonomous expenditure.
3. Income and Employment determination: Classical Model and Keynesian model.
4. Concept of Multiplier and Accelerator, Business cycle
5. The challenge to Keynesian economics: Monetarist views, Rational expectations theory,

Unit 5 : The Closed Economy in the Short Run

1. Classical and Keynesian systems: Simple Keynesian model of income determination
2. IS-LM model. Mundell-Fleming Model
3. Fiscal and monetary multipliers

Readings:

1. Case, Kari E.& Ray C. fair, Principles of Economics, Pearson education, Inc., 8th edition, 2007.
2. Sikdar, Shoumyen, Principles of Macroeconomics, 2nd edition, Oxford university press India.
3. Balanchard, O.(2018) Macroeconomics, 7th ed. Pearson education.
4. Dornbusch, R. Fishcher, S., Startz, R. (2018). Macroeconomics, 12th ed. Mc Grave-hill
5. Mankiw, N.(2016). Macroeconomics, 9th ed.Worth publishers.
6. Michael Vesetl: Introductory Macroeconomics 2nd edition (Harcourt Brace Jovanovich)
7. Schaums outline : Macroeconomics, McGraw Hill Professional
8. Froyen Richard T. " Macroeconomics : Theories and Policies", New Edition, Pearson Education India.

MATHEMATICAL METHODS IN ECONOMICS-II

Course Description

This course is the second part of a compulsory two-course sequence. This part is to be taught in Semester II following the first part in Semester I. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics, and econometrics set out in this Syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Course Outline

Unit 1: Linear Algebra

1. Vector spaces: algebraic and geometric properties, scalar properties, scalar products, norms, orthogonality.
2. linear transformations: matrix representations and elementary operations; systems of linear equations: properties of their solution sets.
3. Determinants: characterization, properties and applications.

Unit 2: Functions of several real variables

1. Geometric representations: graphs and level curves
2. Differentiable functions: characterizations, properties with respect to various operations and applications; second order derivatives: properties and applications; second order derivatives: properties and application.
3. The implicit function theorem, and application to comparative statics problems; homogeneous and homothetic functions: characterizations and applications.

Unit 3: Multi-variable optimization

1. Convex sets; geometric properties of functions: convex functions, their characterizations, properties, and applications; further geometric properties of functions: quasi convex functions, their characterization, properties and applications.
2. unconstrained optimization: geometric characterizations, characterizations using calculus and applications; constrained optimization with equality constraints: geometric characterization.
3. Lagrange characterization using calculus and applications; properties of value function: envelope theorem and applications.

Unit 4: Real analysis and Game theory

1. Sequences and their limits, Criteria for convergence. Monotone sequences, Bounded sequences.
2. Metric spaces, limit point, open, closed, bounded and compact sets, Continuity of functions, Weierstrass theorem for existence of optima.
3. Types of strategics, types of game, the prisoner's dilemma, Nash equilibrium.

Readings:

1. K. Sydsaeter and P. Hammond, Mathematics for Economic analysis, Pearson Educational Asia: Delhi, 2002.
2. Osborne, M.J. an introduction to game theory, oxford university press,2004
3. C.P. Simon and L.E. Blume, mathematics for Economists.
4. A.C. chiang, mathematical economics, McGraw Hill, 1995
5. Intrilligator, Mathematical Optimization and Economic theory (1971)

Rajasthan Economy (Generic elective-II)

Unit 1. Introduction

1. Position of Rajasthan in Indian Economy: Population, Area, Agriculture, Industry, and Infrastructure.
2. Population: Size and Growth; District wise distribution of Rural and Urban population, Demographic features, Occupational structures.
3. Resources: Natural resource endowments- Land, Water, Livestock (Livestock report), and wildlife, Minerals and Mineral policy of the state. Human resource development (Literacy, Health, and Nutrition indicators). Forest report.
4. State domestic product- Trends and composition.
5. Infrastructure in the state- Irrigation, Power and Road
6. Overview of Macro Economic Trend.

Unit 2. Sectoral Growth of Rajasthan

1. Agriculture: Land reforms, Land utilization, Cropping Pattern, Production and productivity, regional variations in Yields, Agriculture finance, Marketing and Insurance, Famines and Droughts in Rajasthan. Reasons and policy solution
2. Allied sectors of agriculture: Importance of livestock and Animal husbandry, Dairy development programmes, Water resources in Rajasthan
3. Industrial development of the state- Agriculture and Mineral based industries, small scale and cottage industries. Enterprises in Rajasthan
4. Export based units, Rajasthan handicrafts. Export policy.
5. Growth centre and development of Industrial areas. Industrial finance
6. Role of different corporations in Industrial development- RIICO, RFC, DMIC, BIP, RSLDC and RAJSICO.
7. Service sector- Education, Health (ESI and NHM), Tourism development in Rajasthan

Unit 3. Economic Planning and Development in Rajasthan

1. Economic Planning and development in Rajasthan.
2. Constraints in the Economic development of Rajasthan.
3. Special area development programmes in Rajasthan.
4. Woman Empowerment and Child Development
5. Problems of Poverty and Unemployment in Rajasthan.
6. Panchayati Raj and Rural development in Rajasthan
7. Budgetary trends in Rajasthan. Centre State Financial relations.
8. Economic reforms and Liberalizations in Rajasthan
9. Inter-district inequalities.

Unit 4 Urbanisation and Urban Development

1. Urbanisation in Rajasthan
2. Urban Development in Rajasthan
3. Rajasthan Housing Board
4. Town Planning Department
5. Department of Local Self Government
6. Urban Water Supply

Readings:

1. Rajasthan economy- Laxmi Narayan Nathuramka
2. Statistical abstract Directorate of Economics and Statistics. Department of planning, Rajasthan Jaipur.
3. Economic survey of India
4. Fifty years of Agriculture in Rajasthan (2022) Directorate of Agriculture.
5. Economic review of Rajasthan, Directorate of Economics and Statistics, Department of Planning Rajasthan Jaipur
6. https://www.rbi.org.in/Scripts/AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20Economy
7. https://www.indiabudget.gov.in/economicsurvey/
8. https://www.indiabudget.gov.in/
9. http://rchiips.org/nfhs/