



গড়গাঁও মহাবিদ্যালয় GARGAON COLLEGE

TEACHING PLAN
DEPARTMENT OF ECONOMICS
JULY 2020 - JUNE 2021

GARGAON COLLEGE

TEACHING PLAN

Course: B. A.

Session: Odd semester (July to December, 2020)

Subject: ECONOMICS

Name of the Teacher: DR. RIMJIM BORAH

Methods to be applied: Lecture, analytical and activity method, interaction and discussion.

Teaching Materials: Green Board, Chalk Pencil, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, Projector.

Paper Title	Code/ Unit/ Topic	Allotted	No. of Class required	Detail of the topics to be taught & class required	No. of tutorials
1st Semester (Honours) (CBCS) Mathematical Methods for Economics – I ECNHC102	Unit: 3 Derivative of one real variable		15	<ul style="list-style-type: none">• Differentiable functions: Properties [1]• Derivative and slope of a curve [1]• Geometric Interpretation of derivative [1]• Rules of differentiation for a function with one independent variable [3]• Economic Application of derivatives [3]• Elasticity of demand [1]• Cost and revenue functions [1]• Relation between Average and Marginal costs [2]• Second and higher order derivatives and application in Economics [2]	3
	Unit: 4 Integration of Functions		15	<ul style="list-style-type: none">• Indefinite Integrals: Rules of Integration [2]• Techniques of Integration-Substitution rule [2]• Integration by parts and partial fraction [2]• Application to economic problems [3]• Derivation of total functions from marginal functions [2]• Definite Integrals [2]• Properties of definite integrals• Application in case of consumer's surplus and producers surplus [2]	3
1st Semester (Generic)	Unit: 5 Input Markets		15	<ul style="list-style-type: none">• Behaviour of profit maximizing firms and the production process [4]	3

Introductory Microeconomics (ECNGE1) (CBCS)			<ul style="list-style-type: none"> • Short run cost and output decisions- Basic concepts, relationships [2] • Output decisions: revenue, cost and profit maximisation [2] • Costs and output in the long run-short – short run conditions and long run directions [2] • Long run costs [2] • Economies and diseconomies of scale [2] • Long run adjustments to short run conditions [1] 	
3rd Semester Course Code: ECNHC303 Nature of the Course: Core Course Title: Statistical Methods for Economics	Unit:1 Descriptive Statistics	15	<ul style="list-style-type: none"> • Measures of Central Tendency :Arithmetic Mean, Median and Mode (for both Grouped and Ungrouped Data) [4] • Properties of Arithmetic Mean[1] • Comparison of Mean, Median and Mode [1] • Geometric and Harmonic Mean [2] • Measures of Dispersion : Range, Quartile Deviation, [1] • Mean Deviation and Standard Deviation [2] • Measures of Skewness and Kurtosis. [2] • The Concept of Moments [2] 	3
	Unit:4 Sampling	15	<ul style="list-style-type: none"> • Distinction between sampling and census [1] • Principal steps in a sample survey [1] • Errors in statistics: sampling vs. non-sampling errors [2] • Methods of sampling [4] • Testing of hypothesis chi square [4] • t test [3] 	3
3rd Semester (CBCS) Generic Elective: Indian Economy I Course Code: ECNGE3.1	Unit:2 Population and Human Development		<ul style="list-style-type: none"> • Demographic features and trends- Size and growth rates of population, trends in birth and death rates, Density of population, Age and Sex Composition [6] • Population as a factor of economic development [3] • Demographic Dividend [2] • National Population Policy [2] • Human Development in India- Human Development indicators [3] • Human Development Index, India ‘s human development record in global perspective [4] 	4

5th Semester (Major) (Non- CBCS) ECOM-503- History of Economic Thought	Unit1: 1 Pre-classical and Classical Economic Thought	10	<ul style="list-style-type: none"> • Basic Tenants of Mercantilism and Physiocracy [3] • Contributions of- • Adam Smith [2] • David Ricardo, T.R. Malthus [2] • J.B. Say [2] • J.S Mill's Restatement of Classicism [1] 	2
	Unit: 2 Reaction against Classicism:	10	<ul style="list-style-type: none"> • Positive and Critical Ideas of Historical School [] • State Socialism [1] • Ideas of – • J.K Rodbertus [1] • F. Lassalle [1] • Scientific Socialism [1] • Chief tenants of Marxian Thought • Dialectical Materialism [1] • The labour theory of value [1] • Theory of surplus value [1] • The law of concentration of capital [1] • Marx and modern economics [1] 	2
	Unit: 3 Reconstructio n of Economic Science	10	<ul style="list-style-type: none"> • Subjectivism and Marginalism [1] • Factors giving rise to Subjectivism and Marginalism [1] • Economic Ideas of Walras and Cael Menger [2] • Neo Classicism, Contributions of- • Alfred Marshal • Knut Wicksell [2] • Bohm Bawerk [2] 	2
	Unit1: 4 Keynesian Economic Thought	10	<ul style="list-style-type: none"> • Keynes Departure from Classical Economics [1] • Salient Features of General Theory of Employment. Interest and Money [2] • Theory of Employment [1] • Theory of Prices [1] • Keynes and International Economics [2] • Keynes' influence on Public Policy [1] • Keynesian Economics and underdeveloped Countries [1] • Keynesianism Vs. Monetarism [1] 	2
	Unit1: 5 Indian Economic Thought	10	<ul style="list-style-type: none"> • Development of Indian Economic Thought [1] • Economic Ideas of – • Kautilya [2] • D. Naoroji [2] 	2

			<ul style="list-style-type: none"> • M.Gandhi [2] • D.R. Gasgil [2] • Gyan Chand [2] 	
5th Semester (Non- Major) (Non- CBCS) Paper: 5.01 Elementary Statistics for Economics	Unit: II Measurement of Central Tendency:	9	<ul style="list-style-type: none"> • Arithmetic Mean & Geometric Mean [3] • Median [2] • Mode [2] • Comparative Merits and Demerits of Measures of Central Tendency [2] 	2
	Unit III: Measures of Dispersion	9	<ul style="list-style-type: none"> • Range [2] • Inter-quartile Range [2] • Quartile Deviation [2] • Mean Deviation [1] • Standard Deviation [2] 	1

(Dr. Rimjim Borah)

Assistant Professor

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GARGAON COLLEGE

TEACHING PLAN

Course: B. A.

Session: Even semester (January to June, 2021)

Subject: ECONOMICS

Name of the Teacher: DR. RIMJIM BORAH

Methods to be applied: Lecture, analytical and activity method, interaction and discussion.

Teaching Materials: Green Board, Chalk Pencil, Duster, Book, Journal, Newspaper, Magazine, Periodicals, Laptop, Projector.

Paper Code/Title	Allotted Unit/ Topic	No. of Class required	Detail of the topics to be taught & class required	No. of tutorials
2 nd Semester (CBCS) (Honours) Mathematical Methods for Economics – IIECNHC202	Unit: 2 Linear Algebra	15	<ul style="list-style-type: none">• Systems of linear equations: properties of their solution [2]• Matrices-elementary operations- matrix addition [2]• Product [2]• Rank of a matrix [2]• Determinants and their properties [2]• Inverse of a matrix [2]• Application of Cramer's rule for solution of a system of linear equations [3]	3
	Unit: 3 Derivations of functions of several Variable	20	<ul style="list-style-type: none">• Derivatives of Functions of several variables: Partial and Total differentiation and economic applications [4]• Indifference curve analysis; [2]• Expansion Path [2]• Production Function Analysis- Homogeneous Functions and Euler's Theorem; [4]• Cobb-Douglas Production Function and its Properties; [4]• CES Production Function and its properties [4]	4

<p>2nd Semester (CBCS) (Generic Elective) Course Code: ECNGE2</p>	<p>Unit:2 Rules and approaches of Measurement of GDP</p>	<p>15</p>	<ul style="list-style-type: none"> • Income, Expenditure, product and Value-added approaches [4] • Difficulties of Estimating National Income [3] • Circular Flow of Income and expenditure in two and four-sector economy [4] • National income accounting for an open economy. [4] 	<p>3</p>
<p>4th Semester (Honours) Course Title: Advanced Macroeconomics Nature of the Course: Core Course Code: ECNHC402</p>	<p>Unit: 5 Schools of Macroeconomic Thoughts</p>	<p>10</p>	<ul style="list-style-type: none"> • Classical vs Keynesians: [2] • Classical and full wage-price flexibility [2] • Keynesians and wage-price rigidity [2] • the Monetarist counterrevolution – the basic propositions of the monetarists[2] • New-Classical economics and critique of Keynesian economics[2] • Rational expectations and policy ineffective proposition; the Keynesian counter critique[2] • the supply side economics – [2] • Laffer curve analysis [2] 	<p>3</p>
<p>4th Semester (Honours) Course Code: ECNHC403 Course Title: Introductory Econometrics Nature of the Course: Core</p>	<p>Unit 4: Multicollinearity</p>	<p>10</p>	<ul style="list-style-type: none"> • Nature of the problem [1] • Sources [3] • Perfect multicollinearity vs Imperfect multicollinearity its consequences [3] • Detection and remedies of multicollinearity [3] 	<p></p>
<p>4th Semester (Generic Elective)</p>	<p>Unit :2 Policies and Performance in Agriculture</p>	<p>20</p>	<ul style="list-style-type: none"> • Changing structure of Indian Agriculture [2] • Growth and productivity of Agriculture [2] • Sustainable agriculture [2] • concept and constraints [1] • Diversification of Agriculture [2] • Capital formation [1] • Role of technology [1] • Green revolution [2] 	<p>2</p>

			<ul style="list-style-type: none"> • Institutions- land reforms [2] • rural credit [2] • agricultural marketing [1] • price policy [1] • WTO and Agriculture [1] 	
6th Semester Paper: 6.01 Environmental Economics ECNHDSE602	Unit: I Basic concepts	10	<ul style="list-style-type: none"> • Ecology [1] • Environment and Economy [1] • The Economy and Environment Linkages [1] • Material Balance Model [1] • Environment and development [1] • Resource and Residuals [1] • Environmental economics- Definition and evolution of the subject [1] • Objectives and Issues [1] • Environment as an economic and social asset [1] • Environmental economics and Resource Economics [1] 	2
	Unit: II Market Failure	10	<ul style="list-style-type: none"> • Concepts and common sources of market failure [1] • Public goods-characteristics [1] • Environmental Quality as Public Goods [1] • Optimal Provision of public goods [1] • Common Property Resources [1] • Externalities- Negative and Positive [1] • Environmental pollution as Negative Externality [1] • Internalizing Externality through Government Intervention [1] • Coase theorem [2] 	3
	Unit: III Solution to the Environmental Problem	10	<ul style="list-style-type: none"> • The Command and Control Approach [2] • The Incentive/Market based Methods [2] • Emission Fee or Tax [2] • Environmental Standard [1] • Tradable Pollution Permit [1] • Liability Law [1] • Carbon Trading [1] 	3
	Unit: IV Sustainable Development	10	<ul style="list-style-type: none"> • Concept, Notion of Sustainability [3] • Strong and Weak Sustainability [2] 	3

			<ul style="list-style-type: none"> • Indicators of Sustainable development [3] • Environmental Impact Assessment [2] 	
	Unit: V Global and Local Environmental Concern	10	<ul style="list-style-type: none"> • Environmental problems of the Developed and Developing Countries [2] • Global Environmental problems [1] • Global Warming [1] • Ozone Layer depletion [1] • Loss of Bio-diversity [1] • Environmental problems in Assam [1] • Solid Waste Management [1] • Deforestation [1] • Watershed Management [1] 	2
6th Semester Paper: 6.01 (Development Economics)	Unit: III Human Resource Development and Manpower planning	10	<ul style="list-style-type: none"> • Population Growth and Quality of life [1] • Health challenges faced by the developing countries including HIV, AIDS [1] • Health and Productivity [1] • Health Policy for the developing countries [1] • Role of Education in Economic Development, education [1] • Inequality and poverty [1] • Unemployment and underemployment problems of developing countries [1] • Manpower Planning [1] • Brain Drain [1] 	2

(Dr. Rimjim Borah)

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TEACHING PLAN

Course: B. A.

Session: Odd semester, 2020

Subject: ECONOMICS


Name of the Teacher: NILUTPAL CHUTIA

Methods to be applied: Lecture, analytical and activity method, interaction and discussion.

Paper Code/Title	Allotted Unit/ Topic	No. of Class required	Details of the topics to be taught & class required	No. of tutorials
Mathematical Methods for Economics – I ECNHC102 (CBCS)	i. Preliminaries Logic and proof techniques	8	<ul style="list-style-type: none"> • Logic and proof techniques [2] • Number systems, intervals [1] • Sets: types and set operations [3] • Ordered pairs, Cartesian products, and relations [2] 	2
	ii. Functions of one real variable	10	<ul style="list-style-type: none"> • Functions and their properties and graphs; [2] • Types of functions - polynomial, rational, exponential, logarithmic; [2] • Sequences and series: convergence, algebraic properties and applications; [2] • Limit of a function; [2] • Continuous functions: characterizations, properties with respect to various operations and applications [2] 	2
	ii. Differential Equations	15	<ul style="list-style-type: none"> • Linear first order differential equation with constant coefficient and constant term [6] • Economic applications [9] 	2
ECNGE1 Introductory Microeconomic s	Unit V: Input Markets	6	<ul style="list-style-type: none"> • Labour and land markets - basic concepts (derived demand (1) • Productivity of an input, marginal productivity of labour (1) • Marginal revenue product; demand for labour; (1) • Input demand curves; shifts in input demand curves; (1) • competitive labour markets; 	2

			(1) <ul style="list-style-type: none"> labour markets and public policy.(1) 	
ECNHC303: Statistical Methods for Economics (CBCS)	Unit II: Elementary Probability Theory:	15	Probability: Concepts of Sample Space and Events, Probability of an Event, Addition and Multiplication Theorems; Conditional Probability and Independence of Events; Inverse Probability; Bayes' Rule (concepts only); Mathematical Expectation.	
	Random Variables and Probability Distributions:	15	Concept of a Random Variable, Discrete and Continuous Random Variable, Probability Mass Function, Probability Density Function, Mathematical Expectation and Its Properties. Theoretical Distributions: Binomial distribution- its properties, Poisson distribution-its properties, Poisson distribution as a limiting case of binomial distribution, Normal distribution-its properties.	
	Correlation and Regression Analysis:	15	Elementary analysis of linear correlation: Covariance, Scatter Diagram, Karl Pearson's coefficient of correlation- Properties and the Method of Calculation, Concept of Spearman's Rank Correlation. The Concept of Regression, Regression Lines and their Estimation in a Bivariate series, Least Squares Method, The coefficient of determination (R^2) and Standard Error of Estimate.	
504 (M) Monetary Theories and Financial Markets (Non-CBCS)	Unit I: Demand for money and supply of money	4	<ul style="list-style-type: none"> Theories of demand for money and supply of money (3), Measures of money supply in India (1) 	1
	Unit II: Inflation and deflation	8	<ul style="list-style-type: none"> Inflation (2), deflation (2), stagflation (1), Phillips curve (1), stabilization policies (2) 	1

	Unit III: Business cycles	5	<ul style="list-style-type: none"> • Meaning and theories of business cycles- Hawtrey (2), • Keynesian (1), • Schumpeter (1), • Cob-web theories (1) 	1
	Unit IV: Banking	5	<ul style="list-style-type: none"> • Banking- commercial banks (1), central bank (2), • Rural banking (1), • Non-banking financial intermediaries (1) 	1
	Unit V: Financial markets	8	<ul style="list-style-type: none"> • Financial markets- Meaning, role, functions of financial markets (1), Money Market (2), • Capital market (2), • Indian financial markets (1), • Financial reforms in India (2) 	1
501(NM) Elementary Statistics for Economics (Non-CBCS)	Unit III: Measures of dispersion	7	<ul style="list-style-type: none"> • Range, inter-quartile range (1) • Quartile deviation, (2) • Mean deviation, (2) • Standard deviation. (2) 	1
	Unit V: Interpolation	7	<ul style="list-style-type: none"> • Methods of Interpolation: Finite Difference Methods – Newton Forward, (3) • Newton Gauss forward (2) • Newton Gauss Backward methods (2) 	2


 (Nilutpal Chutia)
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 Dept. of Economics

Gargaon College, Simaluguri

TEACHING PLAN

Course: B. A.

Session: Even Semester-2021

Subject: ECONOMICS

Name of the Teacher: NILUTPAL CHUTIA.


Methods to be applied: Lecture power point presentation, interaction and discussion.

Paper	Allotted Unit / Topic	Class required	Detail Teaching Plan	No. of tutorials
ECNHC202 Mathematical Methods for Economics– II (CBCS)	Unit I: Difference equation:	6	<ul style="list-style-type: none">• First order Difference equation (3)• Economic Applications. (3)	3
	Unit IV: Unconstrained optimization:	10	<ul style="list-style-type: none">• Unconstrained optimization with one variable and Economic Applications; (4)• Unconstrained optimization with more than one variable and Economic Applications- (3)• Discriminating Monopoly, (2)• Multiproduct monopoly. (1)	3
	Unit V: Constrained optimization with equality constraints	7	<ul style="list-style-type: none">• Constrained optimization with equality constraints: Lagrange characterization using calculus (3);• Applications consumer's equilibrium (2)• Producer's equilibrium (2)	3
ECNHC403 Introductory Econometrics (CBCS)	Unit I: Nature and Scope of Econometrics	13	<ul style="list-style-type: none">• What is Econometrics?; Economic and Econometric Models; The Aims and Methodology of Econometrics. (2)• Statistical Concepts: Population vs Sample; Statistic and parameters; Estimate and estimators; estimation of parameters – point estimation vs interval estimation; properties of estimators. (3)• Probability Distributions: The Normal distribution; Chi-squared, t- and F distributions. (3)• Testing of hypotheses: defining statistical hypotheses; distributions of test statistics; testing hypotheses related to population parameters; Type I and Type II errors; (3)• Power of a test; tests for comparing	3

			parameters from two samples. (2)	
	Unit II: Simple Linear Regression Model:	17	<ul style="list-style-type: none"> • Two variable case; Regression vs Correlation; Linearity vs Non-linearity; • Stochastic specification: The significance of the error term; (2) • Estimation: The Principle of ordinary least squares; (2) • Assumptions under CLRM; BLUE Properties of estimators: The Gauss Markov theorem; (3) • Goodness of fit – R-squared and R-bar squared; (2) • Tests of hypotheses; Scaling and units of measurement; confidence intervals; Forecasting. (3) • k variable linear regression model: Estimation of parameters; (2) • Qualitative (dummy) independent variables – Dummy variable trap. (3) 	3
	Unit V: Specification Analysis	5	<ul style="list-style-type: none"> • Omission of relevant variables; (2) • Inclusion of irrelevant variables; (1) • Tests of specification errors; (1) • Errors in variables.(1) 	2
603(M) International Economics	Unit I. International Economics and trade theories	10	<ul style="list-style-type: none"> • International Economics-Importance, Subject matter(1), • Adam Smith's Absolute Advantage theory(1), • Ricardian Law of Comparative Advantage(2), • Neoclassical trade models- Opportunity cost doctrine(1), • Trade and returns to scale(1), • Offer curve analysis(1), • Reciprocal demand(1) • Heckscher –Ohlin theorem(2) 	2
	Unit II. Terms of trade and gains from trade	10	<ul style="list-style-type: none"> • Terms of trade-meaning(1), • Different concepts of terms of trade(2), • Trade as an engine of growth(1), • Distribution of gains from trade- Prebisch-Singer views on secular deterioration in the terms of trade(2), • Myrdal's theory of backwash effect(2), Immiserising growth(2) 	2

	Unit III: International Trade Policy	10	<ul style="list-style-type: none"> • Free trade Vs. protective trade (1), • Methods of protection - Tariff and non-tariff barriers; (2) • Inward looking trade policy and outward looking trade policy and their evaluation; (1) • Globalization – Meaning and essential conditions for globalization; (2) • Positive and negative effects of globalization, • Challenges of globalization; (1) • International capital flows – Classification, significance and limitations of foreign capital,(2) • Factors affecting international capital movements.(1) 	2
	Unit IV: Foreign Exchange Markets and Exchange Rates	10	<ul style="list-style-type: none"> • Functions of foreign exchange markets; (1) • Determination of equilibrium foreign exchange rate, Concepts of spot and forward foreign exchange rates; (1) • Theories of exchange rate determination – Mint parity theory; Purchasing power parity theory, Balance of payments theory; (3) • Fixed and flexible exchange rate systems – Case for and against fixed and flexible exchange rate systems; (3) • Balance of trade and Balance of payments; Components of balance of payments, Factors causing balance of payment disequilibrium (2) 	2
	Unit V: Evolution of International Monetary System	10	<ul style="list-style-type: none"> • Gold Standard, Inter-war period, Bretton Woods System, Regulated floating standard; (3) • International Institutions: International Monetary Fund (IMF)-Objectives, functions, achievements and failures; (3) • WTO – Objectives, major agreements and impacts on developing countries with special reference to India. (4) 	2

601(NM) Development Economics	Unit II: Theories of Economic Development and Economic Growth:	9	<ul style="list-style-type: none"> • Classical theory of Growth and Stagnation including Malthus's version (2), • Doctrines of Balanced Growth and Unbalanced Growth, (2) • Rostow's Stages of Economic Growth, (2) • Myrdal's theory of Circular Causation (2) • Critical evaluation of the theories (1) 	2
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