SYLLABUS FOR B.A PASS & HONOURS ECONOMICS (REVISED) 2019



NAGALAND UNIVERSITY HQS. LUMAMI

2019

ECONOMICS B.A (Pass & Honours)

COURSE STRUCTURE

COMPULSORY PAPERS FOR B.A (General & Honours)						
Semester	Code No	TITLE	General/Honours			
Semester-I	ECO-101	Micro Economics-I	General/Honours			
	ECO-102	Quantitative Technique-I	Honours			
		(Mathematics)				
Semester-II	ECO-201	Micro Economics-II	General/Honours			
	ECO-202	Quantitative Technique-II	Honours			
		(Statistics)				
Semester-III	ECO-301	Macro Economics-I	General/Honours			
	ECO-302	Public Finance and Banking	Honours			
Semester-IV	ECO-401	Macro Economics-II	General/Honours			
	ECO-402	International Economics	Honours			
Semester- V	ECO-501	Indian Economy-I	General/Honours			
	ECO-502	Economics of Growth and	Honours			
		Development				
		Optional-I for Honours				
	ECO-503(a)	Agricultural Economics	Honours			
	ECO-503(b)	Mathematical Economics	Honours			
	ECO-503(c)	History of Economic	Honours			
		Thought				
	ECO-503(d)	Industrial Economics	Honours			
Semester-VI	ECO-601	Indian Economy-II	General/Honours			
	ECO-602	Economics of Environment	Honours			
		Optional-II for Honours				
	ECO-603(a)	Demography	Honours			
	ECO-603(b)	Financial Institutions and	Honours			
		Markets				
	ECO-603(c)	Econometric Methods	Honours			
	ECO-603(d)	Regional Economics	Honours			
	ECO-603(e)	Project	Honours			

SEMESTER WISE PAPER DISTRIBUTION (Pass and Honours)

COURSE	FIRST YEAR			SECOND YEAR		THIRD YEAR						
	SEMES	TER	SEMES	STER	SEMES	STER	SEME	STER	SEMESTE	CR V	SEMESTI	ER
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B.A	ECO	101	ECO	201	ECO	301	ECO	401	ECO	501	ECO 601 In	dian
(Pass and	Micro		Micro		Macro		Macro		Indian		Economy-II	
Honours)	Econom	ics-I	Econom	ics-II	Econom	nics-I	Econon	nics-II	Economy-I			
									ECO	502	ECO	602
	ECO	102	ECO	202	ECO	302	ECO	402	Economics	of	Economics	of
B.A	Quantita	tive	Quantita	ative	Public		Internat	tional	Growth	and	Environmen	t
(Honours)	Techniq	ue-I	Techniq	ue-II	Finance	e and	Econon	nics	Developme	nt		
	(Mathen	natics)	(Statisti	cs)	Banking	g			*OPTIONAL	L (I)	**OPTIONA	L (II)
									ECO- 503		ECO - 603	
									(a)-(d)		(a)- (d)	
											or	
											***ECO 603	(e)
											PROJECT	

* Students can choose any one of the optional papers [ECO-503 (a to d)] during V Semester **Students can opt for an optional papers [ECO-603 (a to d)] or ECO 603 (e) Project during semester VI.

*** For course "ECO 603(e) PROJECT", the department shall decide the topics which will be assigned to the student at the beginning of the semester. The project report should be submitted one month before the end semester examinations. The report shall contain a minimum of 5000 words, including tables and annexure.

SEMESTER I (General & Honours) Eco-101: MICRO ECONOMICS-I

Total Marks: 100 Credit: 4

UNITS	TOPICS	CONTACT	WEIGHTAGE
		HOURS	
Unit I	Nature and Scope of Economics:	12	20
	Basic economic problem. Definition of Economics.		
	Methodology of economics. Concept of demand		
	and supply- measurement and elasticity. Concept of		
	Equilibrium.		
Unit II	Theories of Consumer Demand:	15	20
	Utility approach (cardinal and ordinal). Indifference		
	curves approach; Consumer equilibrium-Hicks and		
	Slutsky's theorem, Compensated demand, Engel		
	curve. Consumer surplus.		
Unit III	Theory of Production:	15	20
	Importance of the theory of production; Returns to a		
	factor: total, average and marginal products; Laws		
	of returns to scale. Laws of variable proportions.		
	Production functions-short and long run. Cobb-		
	Douglas production functions. Least cost		
	combination of input. Factor substitution.		
Unit IV	Theory of Cost:	13	20
	Cost functions; Concept of cost. Traditional and		
	Modern theory of cost. Derivation of long and short		
	run cost curves and their relationship, Recent		
	development in cost theory. Analysis of Economics		
	of scale-Real and Pecuniary.		
Unit V	Welfare Economics:	13	20
	Nature, scope and concept. Problems in measuring		
	social welfare. Role of value judgment. Criteria of		
	social welfare-Growth of GNP, Bentham's,		
	Cardinalist and Pareto.		
	Total contact hours and Marks	68	100

- Ahuja, H L. (1990) Advance economic Theory, S. Chand & Co, New Delhi.
- Henderson, J and R.E Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1990), Modern Microeconomics, Macmillan.
- Sen. A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
- Varian, H.R. (2000), Microeconomics Analysis: W.W. Norton, New York.
- Varian, H.H. (2000), Intermediate Microeconomics: A Modern Approach, East West Press, New Delhi.
- Satya, R. Chakraborthy, Micro Economics, Allied Publishers, New Delhi.
- Samuelson P.A and W.D. Nordhus (1998), Economics, Tata McGraw Hills.
- Raj, N.C. (1975), An Introduction to Micro Economics, Macmillan Corporation Ltd India.

SEMESTER I (Honours) ECO-102: QUANTITATIVE TECHNIQUE-I (MATHEMATICS)

Total	Marks:	100
	Crod	it• /

UNITS	TOPICS	CONTACT	WEIGHTAGE
		HOURS	
Unit I	Sets and Functions:		
	Sets – Concepts and Types, Venn Diagram, Number of	13	20
	elements and Cartesian products. Functions - types of		
	function and its application in economics, System of		
	equations and Inequalities in Market Equilibrium		
Unit II	Number System:		
	Uses of numbers, Axiomatic properties of real number		
	and completeness, complex number, graphical	13	20
	representation of complex number. Analytical		
	Geometry: Application of straight line, points and lines,		
	slope of the line curves, distance and section formulas,		
	parabola, circle, isoprofit and isocost lines.		
Unit III	Differentiation:		
	Functions and limits, Differentation; Rules of	15	20
	differentiation, Marginal revenue, average revenue, total		
	revenue, marginal cost, average cost and total cost,		
	Maxima and Minima, profit maximisation.		
Unit IV	Integration: Rules of integration. Consumer and	14	20
	producers surplus.		
Unit V	Matrix and Determinants:		
	Different types and solution of simultaneous equation	13	20
	through Cramers rule and matrix methods.		
	Total Contact Hours and Marks	68	100

- Mike Rosser, Basic Mathematics for Economists, Routledge Taylor and Francis Group, 29 west 35th street, New York, NY 10001.
- Suranjan Saha, Mathematics and Statistics [for C.A Professional Education (course)- I], New Central Book agency (P) Ltd, 9/1 Chintamoni Das Lane, Kolkata 700009.
- Frank Werner and Yuri N. Sotskov, Mathematics of Economics and Business, Routledge, 270 Madison Ave, New York, NY 10016.
- G.S Monga, Mathematics and Statistics for Economics, Vikas Publication.
- Mehta and Madnani, Mathematics for Economists, Sultan Chand and Sons. New Delhi.
- Taro Yamane, Mathematics for Economist, Prentice-Hall of India.

SEMESTER II (General)

Eco-201: MICRO ECONOMICS-II

Total Marks: 100
Crodit: A

		1	Cicuit. 4
UNITS	TOPICS	CONTACT	WEIGHTAGE
		HOURS	
Unit I	Market Structure and Pricing:	14	20
	Perfect and Imperfect markets. Equilibrium of a firm.		
	Perfect Competition-short and long run equilibrium of		
	the firm and industry. Monopoly-short and long run		
	equilibrium. Price Discrimination, Measure of		
	Monopoly Power. Monopoly control and regulation.		
Unit II	Monopolistic Competition:	12	20
	Concepts. General and Chamberlin approach to short		
	and long run equilibrium.		
Unit III	Oligopoly:	14	20
	Characteristics of Oligopoly. Models of Oligopoly-		
	Sweezy, Cournot and Edgeworth.		
Unit IV	Theories of Wages and Rent:	14	20
	Wages and Collective Bargaining. Wage Differential.		
	Marginal Productivity theory. Modern theory of		
	Wage. Rent- Concepts. Scarcity Rent. Differential		
	Rent. Quasi Rent. Ricardian theory of Rent.		
Unit V	Theories of Interest and Profits:	14	20
	Concepts of Interest - Distinction between Gross and		
	Net. Knights theory of Uncertainity, Schumpeter		
	theory of Innovation, Clarke dynamic theory of profit.		
	Hawley risk theory.		
	Total contact hours and Marks	68	100

- Ahuja, H L. (1990) Advance economic Theory, S. Chand & Co, New Delhi.
- Henderson, J and R.E Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1990), Modern Microeconomics, Macmillian.
- Sen. A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
- Varian, H.R. (2000), Microeconomics Analysis: W.W. Norton, New York.
- Varian, H.H. (2000), Intermediate Microeconomics: A Modern Approach, East West Press, New Delhi.
- Satya, R. Chakraborthy, Micro Economics, Allied Publishers, New Delhi.
- Samuelson P.A and W.D Nordhus (1998), Economics, Tata McGraw Hills.
- Raj, N.C. (1975), An Introduction to Micro Economics, Macmillan Corporation Ltd India.

SEMESTER II (Honours)

ECO-202: QUANTITATIVE TECHNIQUE-II (STATISTICS)

Total Mark: 100

Credit:	4
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			Cleuit. 4
UNIT	TOPIC	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Introduction to Statistics:		
	Basic concepts, definitions, frequency distribution,		
	cumulative frequency, graphic and diagrammatic	13	20
	representation of data, techniques of data collection,		
	sampling vs. population, primary and secondary data.		
Unit II	Measure of Central Tendency		
	Measures of central tendency - Mean, Median and Mode.	14	20
Unit III	Measure of Dispersion: Range, Quartile deviation, Mean		
	deviation, Standard deviation, Variance and Coefficient of	14	20
	variation, Skewness and Kurtosis.		
Unit IV	Time Series and Index Numbers:		
	Time series analysis- concept and components,		
	measurement of trend, determination of seasonal		
	variations. Index numbers- concept, methods of	14	20
	constructing index numbers (Laspeyers, Paaches and		
	Fishers index, Family budget method, Chain index		
	numbers), Problems in construction and limitation of		
	index numbers.		
Unit V	Correlation and Regression:		
	Coefficient of correlation – Karl Pearson and Rank	13	20
	correlation, Regression – linear and two regression		
	equations.		
	Total Contact Hours and Marks	68	100

- Croxton, F.E. D.J, Dowdon and S Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.
- Goon, A. M, M.K, Gupta and B. Das, Gupta (1993), Fundamentals of Statistics, Vol. 1. The World Press Ltd, Calcutta.
- Gupta, S.P. and V.K Kapoor (1993), Fundamentals of Applied Statistics, S Chand & Sons, New Delhi.
- Millar, J. (1996), Statistic for Advanced level, Cambridge University Press, Cambridge.
- Monga, G.S. Mathematics and Statistics for Economists, Vikas Publication
- Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill London.

SEMESTER III (General & Honours) ECO-301: MACRO ECONOMICS- I

Total Marks: 100 Credit: 4

			Cituit. 4
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	National Income and Social Accounting: Concepts and measurement of National Income, factors determining N.I, difficulties in the calculation of N.I, importance of N.I. Social accounting- Meaning, the development of National accounting ; Technique of social accounting, preparation of accounts, nature of double entry, purpose of each accounts. Flow of funds accounts, BOP account, Green accounting.	18	20
Unit II	Output and Employment : Say's law of market and the Classical theory of employment; Keynes objection to the Classical theory; Aggregate demand and aggregate supply functions; The principle of effective demand, Keynes determination of income and employment.	15	20
Unit III	Consumption Function : Consumption. Short and Long run. Factors influencing average and marginal propensity to consume, Keynes psychological law of consumption spending and Relative Income Hypothesis.	15	20
Unit IV	Theories of Interest: Classical view on interest, Neo-Classical theories of interest, Keynesian theory of interest and Modern theory of interest.	10	20
Unit V	Investment Theory : Theory of investment- Autonomous and Induced investment; marginal efficiency of capital; General equilibrium- IS and LM curve. Investment multiplier and its effectiveness in LDCs.	10	20
	Total Contact Hours and Marks	68	100

- Branson W.A (1989), Macro Economic Theory and Policy, Harper and Row, New York.
- Gupta, R.D and A.S. Rana, Keynes and Post Keynesian Economics, Kalyani Publishers, Ludhiana.
- Maria John Kennedy.M (2011), Macroeconomic Theory, PHI Learning Pvt. Ltd, New Delhi.
- Seth, M.L and Lakshmi Narian Agarwal (2010) Macroeconomics.
- H.L. Ahuja (2010) Macroeconomics: Theory and Practices, S Chand & Co, New Delhi.
- Shapiro. E (1996), Macroeconomics Analysis, Galgodia Publications, New Delhi.
- Gregory, N. Mankiw (2000), Macro Economics, Macmillan, New Delhi.
- Gupta, S.B (1983), Monetary Economics, S Chand & Co, New Delhi.

SEMESTER III (Honours) ECO-302: PUBLIC FINANCE AND BANKING

		Total Marks: 100		
			Credit: 4	
UNITS	TOPICS	CONTACT HOURS	WEIGHTAGE	
Unit I	Public Finance and Fiscal Policy:			
	Meaning and scope of Public Finance, Principle			
	of maximum advantage, fiscal policy.	13	20	
	Objectives and role of fiscal policy.			
Unit II	Public Debt and Expenditure			
	Sources public borrowing, types, causes and			
	effects of public borrowing, burden of public	14	20	
	debt, and redemption of public debt. Deficit			
	financing. Wagner's law, Wiseman-peacock			
	hypothesis, Types, causes and effects of public			
	expenditure.			
Unit III	Taxation:			
	Taxation-Direct and indirect taxation, impact			
	and incidence of taxation, canons of taxation,	13	20	
	taxable capacity, India's tax structure. Sources of			
	public revenue.			
Unit IV	Indian Public Finance:			
	Centre-State financial relations. Revenue of the	14	20	
	states and local bodies. India's public debt and			
	expenditure, Finance Commission, Union			
	Budget.			
Unit V	Budget:			
	Budget; meaning, types and techniques of	14	20	
	budget. Requisite of Good Budget. Budgetary			
	theory; classical and modern. Zero based			
	budgeting.			
	Total Contact Hours and Marks	68	100	

- Mithani D M (1998) Modern Public Finance, Himalaya Publishing House, Mumbai
- Musgrave, R .A and P.B. Musgrave (1976) Public Finance in Theory and Practice, MacGraw Hill, Kogakusa, Tokyo.
- Musgrave R. A (1959), The Theory of Public Finance , McGraw Hill, Kogakusa, Tokyo.
- H.L Bhatia, Public Finance, Vikas Publishing House Pvt. Ltd
- Misra, B (1997) Public Economics, Macmillan India Limited, New Delhi

SEMESTER IV (General & Honours) ECO-401: MACRO ECONOMICS- II

Total Marks: 100 Credit: 4

	TODICC		
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Theory of Demand for Money:		
	Concept of money, functions; Quantity theories of		
	money - Cash Transaction, Cash Balances Approach,	12	20
	Keynesian approach.		
Unit II	Banking:		
	Commercial banking - functions, Credit Creation -	12	20
	purpose and limitations. Central banking – functions.		
	Instruments of Credit control.		
Unit III	Supply of money:	12	20
	Definition, components and definition of supply of		
	money. Money multiplier and high powered money.		
	RBI policies and money supply.		
Unit IV	Inflation:		
	Inflation, definition, types, causes, effects of inflation on		
	different Sectors of economy; Demand – pull inflation	16	20
	and cost – push inflation. Measures to control Inflation.		
	Trade off between inflation and unemployment.		
Unit V	Trade cycle:		
	Nature and characteristics; Hawtrey's monetary theory;	16	20
	Keynes view on trade cycle, Concept of accelerator;		
	Samuelson and Hicks multiplier and accelerator		
	interaction Model, control of trade cycle.		
	Total contact hours and Marks	68	100

- Branson W.A (1989), Macro Economic Theory and Policy, Harper and Row, New York.
- Gupta, R.D and A.S. Rana, Keynes and Post Keynesian Economics, Kalyani Publishers, Ludhiana.
- Maria John Kennedy.M (2011), Macroeconomic Theory, PHI Learning Pvt.Ltd, New Delhi.
- Seth, M.L and LAkshmi Narian Agarwal (2010) Macroeconomics.
- H.L. Ahuja (2010) Macroeconomics: Theory and Practices, Advance Analysis, S Chand & Co, New Delhi.
- Shapiro. E (1996), Macroeconomics Analysis, Galgodia Publications, New Delhi.
- Gregory, N. Mankiw (2000), Macro Economics, Macmillan, New Delhi.
- Gupta, S.B (1983), Monetary Economics, S Chand & Co, New Delhi.

SEMESTER IV (Honours) ECO-402: INTERNATIONAL ECONOMICS

		Total Marks: 100		
			Credit: 4	
UNITS	TOPICS	CONTACT	WEIGHTAGE	
		HOURS		
Unit I	Theories of Trade:			
	Absolute advantage, Comparative advantage and	14	20	
	Opportunity Cost. Heckscher-Ohlin theorem and			
	Leontief Paradox.			
Unit II	Tariff:			
	Effects of tariff (Partial and General equilibrium	13	20	
	analysis). Theories of Optimum Tariff, Optimum			
	tariff formula and Import Quota.			
Unit III	Balance of Payment:			
	Concept and components of Balance of Trade	13	20	
	and Payment. Equilibrium and disequilibrium in			
	the Balance of Payment.			
Unit IV	Multilateral Financial Institutions:			
	IMF, ADB, International Finance Corporation	14	20	
	(IFC), International Development Association			
	(IDA) and World Bank.			
Unit V	Trading Blocks:	14	20	
	UNCTAD. WTO. EU. ASEAN and SAFTA			
	Total Contact Hours and Marks	68	100	

- Salvatore, D.L (1997), International Economics, Prentice Hall, Upper Saddle River, N.J
- Sodersten, Bo (1991), International Economics, Macmillan Press Ltd., London
- Mannur, H. G (1998) International Economics, Vikas Publication, Delhi.
- R.R. Paul, Monetary Economics.

SEMESTER V (General & Honours) ECO-501: INDIAN ECONOMY-I

Total marks: 100 Credit: 4

	TODICC		
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Structure of the Indian Economy :		
	Basic feature; Natural resources; Population-size and	13	20
	growth rates, sex composition, rural-Urban migration,		
	occupational distribution, population policy.		
Unit II	Areas of Concern:	13	20
	Poverty and inequality, unemployment, prices and		
	inflation.		
Unit III	National Income:		
	Growth performance, measures for growth performance,	13	20
	National income by industrial origin and occupational		
	structure.		
Unit IV	Planning in India:		
	Objectives, strategy broad achievements and failures,		
	current five year plan- objectives, allocation and targets.	16	20
	Planning commission/NITI Aayog. New economic		
	reforms - liberalization, privatization, rational behind		
	economic reforms; progress of privatization and		
	globalization.		
Unit V	Banking in India:		
	Growth and performance of nationalized banks, Reserve	13	20
	bank and monetary regulation in India.		
	Total Contact Hours and Marks	68	100

- Agarwal, A.N, Indian Economy, Vikas Publishers, New Delhi.
- Datt,R. and K.P.M.Sundaram, Indian Economy, S.Chand and company Ltd, New Delhi.
- Misra,S.K and V.K .Puri, Indian economy-Its Development and experience, Himalaya publishing house, Mumbai.
- Kapila Uma, Indian Economy, Academic Foundation, New Delhi.
- Gupta, S.B (1983), Monetary Economics, S Chand & Co, New Delhi.
- Dhingra, I.C (2001). Indian Economy: Environment and Policy, Sultan Chand & Sons, New Delhi.

SEMESTER V (Honours) ECO-502: ECONOMICS OF GROWTH AND DEVELOPMENT

Total	Marks: 100	
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TINITC	TODICC	CONTACT	
UNIIS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Economic Growth and Development:		
	Development and underdevelopment. Perpetuation of		
	underdevelopment. Measurement of economic	10	20
	development. Factors affecting economic growth.		
	Importance of Agriculture, Industry and Infrastructure.		
Unit II	Theories of Economic Development:		
	Classical theories of development- Smith, Ricardo,	15	20
	Malthus, Mills, Karl Marx and Schumpeter.		
Unit III	Theories of Economic Growth:		
	Harrod and Domar, Solow, Joan Robinson, Kaldor and	15	20
	New Growth theory (Paul Romer).		
Unit IV	Partial Theories of Growth and Development:		
	Circular causation, Rostow's stages of Growth, Big	13	20
	push, Balanced versus Unbalanced growth.		
Unit V	Investment and Planning:		
	Meaning and need for planning. Types of planning.	15	20
	Investment Criterion, Cost-Benefit analysis, Choice of		
	technique in LDCs.		
	Total Contact Hours and Marks	68	100

- R.C. Agarwal -Lakshmi Narain Agrawal, Economics of Development and Planning (Theory and Practice)
- Higgins, B, Economic Development, Norton, New York.
- Lekhi, R.K (1990), The Economics of Development and Planning, Kalyani Publishers, Ludhiana.
- Mishra and Puri (2010), Economic Development and Planning.
- Taneja and Myer (2010), Economic Development and Planning and Methods, Vishal Publishing Co, Jhalandhar.
- Todaro, M.P, Economic Development in Third World Countries, Longman, New York.
- Todaro, M.P (1974), Development Planning: Models and Methods, Oxford University Press, Oxford.
- Thrilwall, A.P, Growth and Development, Palgrave, Macmillan.
- Hayami, Y, Development Economics, Oxford University Press, India.

SEMESTER VI (General & Honours) ECO-601: INDIAN ECONOMY II

Total Marks: 100 Credit: 4

UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Agriculture: Nature and importance ;trends in agricultural production and productivity, factors determining productivity, Land reforms, Green Revolution, Rural credit, agricultural marketing.	13	20
Unit II	Industry: Industrial development during the planning period; Industrial policies. Industrial licensing policies- MRTP Act, FERA and FEMA. Growth and problems of small scale industries; Role of public sector enterprises.	16	20
Unit III	Public Debt and Expenditure: Sources of public debt; causes of high public debt and meaning to reduce public debt. Trend in public debt and expenditure in India. Items of public expenditure.	13	20
Unit IV	External sector: Role of foreign trade, trends in exports and imports, composition and direction of India's foreign trade, BOP crisis and the new economic reforms - export promotion measures and the new trade policies. Foreign capital - FDI and MNC.	13	20
Unit V	Economy of Nagaland : Population, structural composition, Infrastructure, Agriculture and Industrial sector; problems and prospects.	13	20
	Total Contact Hours and Marks	68	100

- Agarwal, A.N, Indian Economy, Vikas Publishers, New Delhi.
- Datt,R. and K.P.M.Sundaram, Indian Economy, S.Chand and company Ltd, New Delhi.
- Misra,S.K and V.K .Puri, Indian Economy-Its Development and Experience, Himalaya Publishing House, Mumbai.
- Gupta, S.B (1983), Monetary Economics, S Chand & Co, New Delhi.
- Dhingra, I.C (2001). Indian Economy: Environment and Policy, Sultan Chand & Sons, New Delhi.
- Joshua Thomas & Gurudas Das (eds 2002), Dimensions of Development in Nagaland, Regency Publications, New Delhi.
- Joshua Thomas & Gurudas Das (eds), Structural change in North East India: Resource Industry Linkages, Akansha Publishing house, New Delhi.
- Borthagur, Dhirendra Nath (1992), Agricultural Development of North East Region with special reference to hill agriculture, Bee Cee Prakashen, Guwahati.
- NUTA, Economic Development in Nagaland: Prospects and Constraints.
- Statistical Hand Books, GON; Economic Surveys (Various Issues), Government of India

SEMESTER VI (Honours) ECO-602: ECONOMICS OF ENVIRONMENT

Total	Marks	:	10	0
	0			

			Cituit. 4
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Environment and Ecology:		
	Meaning and elements of ecology, the environment		
	and economic linkages; entropy laws, population	14	20
	environment linkage; environment as a public good;		
	market failure for environmental goods.		
Unit II	Basic Concepts:		
	Pareto optimality and competitive equilibrium;		
	fundamental theories of welfare economics, renewable	12	20
	and non renewable resources, common property		
	resources, social cost-benefit analysis.		
Unit III	The Common problems:		
	Property right approach to environmental problems;	12	20
	concepts and indicators of sustainable development;		
	international trade and the environment. Common		
	property resources.		
Unit IV	Valuation of Environmental Goods:		
	Total economic valuation of environmental goods,		
	valuation of environmental damages/ benefits	15	20
	(willingness to pay and accept), indirect methods		
	(Household production theory) and direct methods		
	(contingent valuation theory)		
Unit V	Environment Regulation Instruments:		
	Prevention, control and abatement of pollution;	15	20
	command and control; market based instruments;		
	Evaluation of environment legislation and institutions		
	in India.		
	Total Contact Hours and Marks	68	100

- Bhattacharya, R.N (Ed) (2001), Environmental Economics: An Indian Perspective, Oxford University Press.
- Kolstad, C.D.(2000), Environmental Economics, Oxford University Press, Oxford
- Sengupta, R.P. (Ed.) (2001), Ecology and economics: An Approach to sustainable development, Oxford University Press, New Delhi.
- Woodhall, M,(1992),Cost-Benefit analysis in Educational Planning, UNESCO, Paris.
- Nick Hanley, Jason F, Shogren and Ben White, Environmental Economics in Theory and Practice, Macmillan India Ltd.
- Pearce, D.W and R.K. Turner, (1991), Ecology and Economics: An Approach to Sustainable Development, Oxford University Press.
- Shankar, U, (2001), Environmental Economics, Oxford University Press, New Delhi.

SEMESTER V (Honours) OPTIONAL - I ECO-503 (a): AGRICULTURAL ECONOMICS

Total Marks: 100

Credit:	4
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UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Development of Agriculture:		
	Role and importance of agriculture in Economic		
	development, changing nature of linkages, agricultural		
	resources in India, land utilization and cropping	17	20
	pattern, irrigation in India, command and development		
	and flood control.		
Unit II	Technological Changes in Agriculture:		
	Traditional techniques and practices, HYV seeds-		
	fertilizers, Green revolution, sustainable agriculture,	17	20
	emerging trends in agricultural technology. Dry land		
	farming, use of bio- technology techniques		
Unit III	Agricultural Marketing and Finance:	10	•
	Markets and functions, channels of distribution of	10	20
	commodities, regulated markets and co-operatives,		
Linit IV	Kole of rural finance, sources of finance-NABARD		
Unit IV	Agricultural Price Policy(APP):	10	20
	had for state intervention shipetives of the ADD	12	20
	instruments and evaluation food security and public		
	distribution in India		
Unit V	Agriculture and Allied Activities:		
	Fisheries horticulture floriculture and forestry -	12	20
	Growth, problems and state policies. Agro based	12	
	industries and food processing industries, development		
	of rural infrastructure.		
	Total Contact Hours and Marks	68	100

- Sadhu, AN and Singh J., Agricultural problems in India- Himalaya Publishing House, Mumbai.
- Sadhu, AN and Singh J., An Introduction to Agricultural Economics, Himalaya Publishing House, Mumbai.
- R.N. Soni ., Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.
- Bilgrami, S.A.R., An Introduction to Agricultural Economics, Himalaya Publishing House, Mumbai.
- John B. Penson Jr., Oral Capps (et al), Introduction to Agricultural Economics, Prentice Hall.
- R.G Desai, Agricultural Economics, Indus books, New Delhi.
- Lekhi, R.K. and Joginder Singh, Agricultural Economics: An Indian Perspective, Kalyani Publishers, Ludiana.

SEMESTER V (Honours) OPTIONAL - I PAPER- XIII (b) ECO-503 (b): MATHEMATICAL ECONOMICS

Total Marks: 100 Credit: 4

			Cituit: 4
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Differentiation and Difference Equation:	13	mol
Omt I	Constrained and an extensional antimization montial	15	20
	Constrained and unconstrained optimisation, partial		20
	differentiation and difference equation.		
Unit II	Quadratic equations and solution to differential	13	20
	equations.		
Unit III	Consumer Theory:	14	
	Utility function, budget line, consumer equilibrium,		20
	marginal rate of substitution and price effects-Slutsky		
	equation, derivatives of demand curves, elasticity of		
	demand and consumer surplus.		
Unit IV	Theory of Production:	14	
	Constant product curves, constrained profit		
	maximisation, Homogeneous and Non-Homogeneous		20
	production function, Cobb-Douglas and CES production		
	function; returns to scale, derivation of cost curves, and		
	equilibrium conditions for producers, adding up theorem.		
Unit V	Market Structure and Prices:	14	
	Market equilibrium under perfect competition,		20
	monopoly, price discrimination, monopolistic		
	competition, prices, subsidies and taxes; Cobweb model.		
	Total Contact Hours and Marks	68	100

- Mike Rosser, Basic Mathematics for Economists, Routledge Taylor and Francis Group, 29 west 35th street, New York, NY 10001.
- Suranjan Saha, Mathematics and Statistics [for C.A Professional Education (course)- I], New Central Book agency (P) Ltd, 9/1 Chintamoni Das Lane, Kolkata 700009.
- Frank Werner and Yuri N. Sotskov, Mathematics of Economics and Business, Routledge, 270 Madison Ave, New York, NY 10016.
- GS Monga, Mathematics and Statistics for Economics, Vikas Publication.
- Mehta and Madnani, Mathematics for economists, Sultan Chand and Sons.
- Taro Yamane, Mathematics for economist, Prentice-Hall of India

SEMESTER V (Honours) OPTIONAL – I

ECO-503 (c): HISTORY OF ECONOMIC THOUGHT

Total Marks: 100

			Credit: 5
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Early Period:		
	History of economic thought and economic history.		
	Methodological approaches to economic thought,	17	20
	importance of history of economic thoughts.		
	Contributions of Plato and Aristotle.		
Unit II	Mercantilism and Physiocracy :		
	Factors responsible for the rise of Mercantilism and their		
	main ideas. Contribution Hume and Cantillon. Factors	17	20
	responsible for the rise of Physiocracy. Contribution of		
	Turgot and Quesnay		
Unit III	Classical Period		
	Features of classical economics- Adam Smith on value	17	20
	and economic growth, Ricardo on distribution and		
	economic growth, Malthus theory of population and		
	economic growth.		
Unit IV	New Classical:		
	Wicksell on General theory of capital. Marshall on value	17	20
	and Distribution. Weiser on theory of alternative costs		
	and imputation		
Unit V	Modern Economics:		
	Keynes General theory of employment, interest and	17	20
	money; Friedman on money and consumption;		
	Schumpeter on the role of entrepreneur and innovation.		
	Total Contact Hours and Marks	85	100

References

- Blaug, M (1997), Economic Theory in Retrospect A history of thought from Adam Smith to J.M Keynes,(5th.Edition), Cambridge University Press, Cambridge.
- Blackhouse, R(1985), A History of Modern Economic Analysis, Basil Blackwell Oxford.
- Schumpeter, J.A. (1954), History of Economic Analysis, Oxford University Press, Oxford
- Grey, A and A.E.Thompson (1980), The Development of Economic Doctrine,(2nd. Edition), Longman Group, London.

SEMESTER V (Honours) OPTIONAL - I ECO-503 (d): INDUSTRIAL ECONOMICS

Total Marks: 100

			Credit: 4
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Introduction, Efficiency and Organisation:	13	20
	Concept and Scope of Industrial economics; Industrial		
	Efficiency-concepts and measurement; Organisational		
	forms and their motives.		
Unit II	Cost theory, Pricing and Profitability:	13	20
	Theory of cost and production; Pricing decisions;		
	Profitability-concept and measurement; labour		
	productivity.		
Unit III	Industrial Finance, Accounting and Industrial	14	20
	location:		
	Types, sources and choice of finance, role and functions		
	of financial institutions; balance sheet, profit and loss		
	account; Industrial location-determinants and		
	approaches.		
Unit IV	Industrial growth in India:	14	20
	Industrial policies, industrial licensing policies, patterns		
	and trends of industrial growth; Cottage and small		
	industries; Public and Private industries.		
Unit V	Issues regarding Indian Industries:	14	20
	FDI, WTO, MNCs and Indian industries; some large		
	industries (Iron and Steel, Sugar, Jute)		
	Total Contact Hours and Marks	68	100

- Barthwal, R.R. (1992), Industrial Economics; An Introductory Text Book, Wiley Eastern Ltd, New Delhi.
- Singh, A and A.N Sadhu (1998), Industrial Economics, Himalaya Publishing House.
- Devine , P. J et.al (1978) An introduction to Industrial Economics (3rd. edition), George Allen and Unwin, London.
- Kuchal, S.C (1980,) Industrial Economy of India (5th, edition) Chaitanya Publishing House, Allahabad.
- Reserve Bank of India, Report on currency and finance (Annual) Mumbai
- Kenneth, D George, Caroline Joll and E.L. Lynk (1991), Industrial organization: Competition, Growth and structural change (4th. Edition) Routledge, New York.

SEMESTER VI (Honours) OPTIONAL - II EC0-603 (a): DEMOGRAPHY

Total Marks: 100

		,	cituit . J
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Introduction: Population study; its relation with other disciplines; Theories of population-Malthus, Optimum Theory, Demographic transition; historical evidence of population growth in developed and developing countries	17	20
Unit II	Sources of demographic data and census: Definition, features, organising census and enumeration	17	20
	methods. Sources of demographic data in India. Census- civil registration system and demographic surveys.		
Unit III	Study of fertility and technique of analysis: Meaning- crude birth rate, age, specific fertility rate, total fertility, relation between total fertility and fertility rate and crude birth rate and death rate, age specific birth and death rates. Techniques of analysis of crude birth and	17	20
	death rates, age specific birth and death rates, standardized birth and death rates.		
Unit IV	Marital status, population and growth Definitions, crude marriage, relation between marital age and fertility age. Meaning and uses of life tables. Concept of stationary, stable and quasi stable population. Techniques of population projection and common measures of growth.	17	20
Unit V	Migration and population policy: Kinds of migration, estimation of migration rate. Reproductive and child health in India, aging of population, evaluation of population policy in India. Composition and trends of population in Nagaland.	17	20
	Total Contact Hours and Marks	85	100

- Agarwal, S.N. (1985), India's Population Problems, Tata McGraw Hill, Bombay.
- Agarwal U.D. (1999), Population projections, and Their Accuracy, B.R. Publishing Corporation, New Delhi.
- Census Reports, Government of India, Various Issues.
- Gulati, S.C.(1988), Fertility in India: An Econometric Analysis of a Metropolis, Sage Publications, New Delhi.
- Mishra, B.D. (1980), An Introduction to Study of Population, South Asian Publishers, New Delhi.
- Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage Publications, New Delhi.

SEMESTER VI (Honours) Optional –II Eco-603 (b): FINANCIAL INSTITUTIONS AND MARKETS

Total Marks: 100 Credit: 5

			Clean.
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Financial system:	15	20
	Structure, role and functions. Growth of the Indian		
	Financial System since 1960. Review of the recent		
	Financial and Banking Sectors reforms and its		
	impact.		
Unit II	Banks and Non-Banks:	20	20
	Commercial Banks- Functions and Role. Credit		
	Creation and its limiting factors. Bank		
	Nationalization-rational and review. Definition and		
	Types of Non-Bank Financial Institutions-Role and		
	Functions. Development Banks-Role and		
	Functions. Distinction between Banks and Non-		
	Banks Financial Institutions.		
Unit III	Central Bank:	15	20
	Functions and Role in Developed and Developing		
	Economics. Goals, Target and Constraints of		
	Monetary policy. Instruments of Monetary		
	Regulation.		
Unit	Financial Markets:	15	20
IV	Regulated and Unregulated credit markets. Capital		
	and Money market. Features of Developed and		
	Undeveloped money and capital market with		
	special reference to India.		
Unit V	Foreign Exchange Markets:	20	20
	Nature, organization and participants. Exchange		
	Rates-Determination, types and system.		
	Determination of exchange rates under fixed and		
	flexible exchange rate regimes. Role of hedging in		
	the determination of exchange rates.		
	Total Contact Hours and Marks	85	100

Basic Reading List:

- Bhole, L.M. (2000), Indian Financial System, Chugh Publication, Allahabad.
- Datt, R and K.P.M Sunderam, Indian Economy, S. Chand and Company Ltd, New Delhi.
- Gupta, S.B. (1983), Monetary Economics, S. Chand and Company Ltd, New Delhi.
- Gupta, S.B. (1995), Monetary Economics, Institutions, Theory and Policy, S. Chand and Company Ltd, New Delhi.
- Mitra, S. (1970), Money and Banking, Random House, New York.
- Misra, S.K and V.K Puri, Indian Economy- Its Development and Experience, Himalaya Publishing House, Mumbai.
- Uppal, R.K. (2011). Money, Banking and Finance in India. *Evolution and Present Structure*, New Century Publications, New Delhi.

SEMESTER VI (Honours)

OPTIONAL – II ECO-603 (c): ECONOMETRIC METHODS

Total Marks: 100

			Credit: 4
UNITS	TOPICS	CONTACT	WEIGH
		HOURS	TAGE
Unit I	Introduction to Econometrics : Origin, definition, objectives and scope of econometrics, limitations of econometrics, Methodology of econometric research, specification and estimation of an econometric model.	17	20
Unit II	Estimation and Regression Analysis : Basic concept of estimation, desirable properties of estimators, unbiasedness, efficiency, consistency and sufficiency. Correlation and regression, coefficient of determination, estimation of an equation.	17	20
Unit III	Theoretical Distribution and Hypothesis Testing : Theoretical frequency distribution, basic concept of binomial, Poisson and normal distribution. Hypothesis testing-Design and evaluation of test: Type-I and type-II errors, standard errors.	17	20
Unit IV	Estimation theory and problems : Ordinary Least Squares (OLS) method-assumption, Gauss-Markov theorem standard errors of estimates. Testing of regression coefficient; coefficient of determination-test; problems of hetrosedasticity and correlation (1 st order); multicollinarity-their consequences, test and remedies.	17	20
Unit V	Lag models and summary variables: Lag in econometric models-concepts, Koyck model, partial adjustments and adaptive expectation models. Summary variable; Qualitative data, seasonal analysis, use of dummy variables for pooled data, posey variable- concept and uses.	17	20
	Total Contact Hours and Marks	68	100

Basic Reading List:

- Green, W, (1997), Econometric Analysis, prentice Hall, New York
- Griffith, W.F., R.H. Hill and G.G. judge (1993), Learning and practicing Econometrics, John Wiley,

New York.

- Gujrati, D. (1995), Basic Econometrics, (3rd Edition), MacGraw Hill, New Delhi
- Johnston, J. (1985), Econometric Methods, McGraw Hill, New York.
- Johnston, J. And J.D. Nardo (1997), Econometric Methods, McGraw Hill, New York
- Kmenta, J. (1997), Elements of Econometrics, (2nd Edition), The Macmillan Press Ltd., Hampshire
- Maddala, G.S. (1993), Econometrics-An Introduction, McGraw Hill, New York.

SEMESTER VI (Honours) OPTIONAL - I ECO-603 (d): REGIONAL ECONOMICS

UNITS	TOPICS	CONTACT	WEIGH
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	HOURS	TAGE
Unit I	Concepts and Location of Firms: Concepts of Region and Regional Economics, Regional Income, Problem of Estimation. Indicators of Regional Development. One Market One Input Case, Hotelling Phenomena.	15	20
Unit II	Spatial Economic Models:		
	interlinked markets. Models of Pricing Under Free Entry, Spatial Monopoly and Price Discrimination. Spatial Monopolistic Competition. Inter Regional	20	20
	Income Models, Inter Regional Factor Movements,		
	Regional Multiplier.		
Unit III	Regional growth models : Neo-classical growth models- cumulative causation,	15	20
	Center-Periphery models. Growth pole analysis, convergence and divergence of disparities in per capital regional income.		
Unit IV	Techniques of Regional Analysis:		
	Techniques of Regional Analysis, regional and interregional input-output analysis, Attraction model; Gravity model: shift- share analysis, Impact studies.	10	20
Unit V	Regional Policy:		
	People prosperity versus place prosperity; Formulation of interregional objectives, consistency between national and regional objectives; Alternate regional policy measures; historical evidence; regional policy in India and Intra regional differences in North-Eastern Region of India (NER)	25	20
	Total Contact Hours and Marks	85	100

- Brahmananda, P.R and V.R. Panchmukhi (Eds)(2001), Development Experience in the Indian Economy: Inter-State Perspective, Bookwell, New Delhi.
- Chand, M. And V.K.Puri (1983), Regional planning in India, Allied Publishers, New Delhi.
- Hoover, E.M. (1974), An Introduction to Regional Economics, Alfred A. Knof, New York.
- Rao.Hanumantha (1984), Regional Disparities and Development in India, Ashish Publishing House, New Delhi.
- Seth, V.K (1987), Industrialisation in India: A Spatial Perspective, Commonwealth Publishers, New Delhi.
- Siebert, H (1969), Regional Economic Growth: Theory and Policy, International Textbook Company, Scranton.

SEMESTER VI (Honours) OPTIONAL - I ECO-603 (e): PROJECT

Total Marks: 100 Credit: 5

Objective: To let the students get familiarize with the empirical aspects of the subject and develop research aptitude.

	Steps	WEIGHTAGE
Step I	Formulation of project work (theory)	
	Identification of problems, objectives and	
	hypothesis of study, analysis, report writing and	
	presentation	
Step II	Data collection	
	Primary (Field survey) and secondary data	
	collection	
Step III	Data Analysis	
Step IV	Report writing	75
Step V	Presentation	25
	Total Marks	100