CBCS CURRICULUM OF

M.A. ECONOMICS PROGRAMME

SUBJECT CODE = ECO

FOR POST GRADUATE COURSES

St. Xavier's College, Ranchi

Implemented from
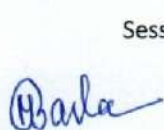Academic Session 2018-2020

CBCS CURRICULUM OF

M.A. ECONOMICS PROGRAMME

SUBJECT CODE = ECO

FOR POST GRADUATE COURSES

St. Xavier's College, Ranchi

Implemented from
Academic Session 2018-2020

Contents

Session 2018-20 Onwards

COURSE STUCTURE FOR M.A. ECONOMICS

Table AI-1: Distribution of 80 Credits [*wherever there is a practical there will be no tutorial and vice –versa.]

Course	Papers	Credits (Sc) Theory + Practical	Credits (Arts/Comm) Theory + Tutorial
I. Foundation Course (FC)			
1. Foundation Course Compulsory Foundation/ Elective Foundation	**(FC)** 1 Paper	1X5=5	1X5=5
II. Core Course (CC)	**(CC 1 to 10/11)**		
Theory	7 Papers/11 Papers	7X5=35	11X5=55
Practical/ Tutorial*	3 Papers/-----------	3X5=15	
Project	1 Paper	1X5=5	1X5=5
III. Elective Course (EC)			
A. Ability Enhancement Course of the Core Course opted	**(AE/EC 1)** 1 Paper	1X5=5	1X5=5
B. Discipline Centric Elective Theory +	**(DC/EC 2&3)** 2 Papers	2X5=10	
Practical	1 Paper	1x5=5	
OR Theory/Practical/Tutorial*	1Paper + 1 Practical/Dissertation		2X5=10
OR Generic Elective/ Interdisciplinary **(GE/EC 2&3)**			
Theory OR	2 Papers		
Theory/Practical/Tutorial*	1 Paper + 1 Practical/Dissertation		
		Total Credit = 80	**= 80**

Table AI-1.1: Course structure for M.A. Programme

Semester	Subject (Core Courses) 12 Papers	Allied (Elective Courses) 3 Papers	Foundation Course (Compulsory Course) 1 Paper	Total Credits
Sem-I	C-1, C-2, C-3 (5+5+5=15 Credits)		Foundation Course FC (05 Credits)	**20 Credits**
Sem-II	C-4, C-5, C-6, C-7 (5+5+5+5=20 Credits)			**20 Credits**
Sem-III	C-8, C-9, C-10 (5+5+5=15 Credits)	EC1 (05 Credits)		**20 Credits**
Sem-IV	C-11, (05 Credits) C-12 (Project) (05 Credits)	EC2, EC3 (5+5=10 Credits)		**20 Credits**
				Total = 80 Credits

Session 2018-20 Onwards

For Session 2018-20 onwards

COURSES OF STUDY FOR POSTGRADUATE, M.A., ECONOMICS PROGRAMME

Table AI-2 Subject Combinations allowed for M. A. Programme (80 Credits)

Foundation Course FC 1 Paper	Core Subject CC 12 Papers	Ability Enhancement Course AE 1 Paper	Discipline Centric Elective/ Generic Elective Course DC/ GE 2 Papers

Table AI-2.1 Semester wise Examination Structure for Mid Sem & End Sem Examinations:

Sem	Core, AE/ GE/ DC/ EC & Compulsory FC Courses				Examination Structure		
	Paper	Paper Code	Credit	Name of Paper	Mid Semester Evaluation (F.M.)	End Semester Evaluation (F.M.)	End Semester Practical/ Viva (F.M.)
I	Foundation Course	FCECO101	5	Elementary Mathematical Economics	30	70	----
	Core Course	CCECO102	5	Micro Economic Analysis	30	70	----
	Core Course	CCECO103	5	Macro Economic Analysis	30	70	----
	Core Course	CCECO104	5	Economics of Environment	30	70	----
II	Core Course	CCECO201	5	Economics of Social Sector	30	70	----
	Core Course	CCECO202	5	Economics of Imperfect Markets, Theories of Distribution and welfare	30	70	----
	Core Course	CCECO203	5	Macroeconomics theory, Indian Financial Institutions	30	70	----
	Core Course	CCECO204	5	Public Economics	30	70	----
III	Ability Enhancement Course	ECECO301	5	Soft's Skill for Economics	30	70	----
	Core Course	CCECO302	5	International Economics	30	70	----
	Core Course	CCECO303	5	Research Methodology and Elementary Econometrics	30	70	----
	Core Course	CCECO304	5	Economic Growth and Development	30	70	----
IV	Elective	ECECO401	5	A. Advance Mathematical Economics/ B. Agricultural Economics/ C. Managerial Economics	30	70	----
	Elective	ECECO402	5	A. Econometrics/ B. Demography/ C. Economics of Labor	30	70	----
	Core Course	CCECO403	5	Indian Economics	30	70	----
	PROJECT/ Dissertation	PRECO404	5	Project	----	----	70 + 30

SEMESTER I   4 Papers

Total 100 x 4 = 400 Marks

I. COMPULSORY FOUNDATION COURSE   [FCECO101]:

(Credits: Theory-05)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):
There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
             The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

ELEMENTARY MATHEMATICAL ECONOMICS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: **Sets, Limits and Functions**
             Sets, Sets Operations, Finite and Infinite Sets, Cartesian Product, Relations, Functions, Limits of a Function, Continuity, Graphical Representation of Functions, Functions in Economic theory.

Module II: Differentiation
             Derivative of a Function – Elementary Properties of Derivatives, Rules of Differentiation, Exponential And Logarithmic Function, Derivatives of Higher Order, Application of Simple Derivation (Total Marginal And Average Functions), Concept of Elasticity, Interrelationships Among Total, Marginal And Average Cost And Revenues.

Module III: **Integration**
             Integration as the inverse process of differentiation, standard forms and properties of integrals – Integration by the methods of substitution, Integration by algebraic & trigonometric function Integration by parts, Integration of exponential function, logarithmic function, Application in consumers surplus.

Module IV: **Maxima and Minima**
             Partial Derivatives – First and Second order, Increasing and Decreasing Function, Convexity of Curves, Maxima and Minima of function of one variable and two

variables.

Module V: Matrices and Determinants

Algebra of vectors, Matrices: Concept, their types, Determinant Matrix inversion and rank of matrix, Matrix Solution of simultaneous equation.

Module VI: Linear Programming

Solution of Linear Programming by Graphical Method.

Module VII: Elementary Theory of Games, Two person Zero Sum Game, Pure and Mixed strategy.

Basic Reading List

- A.C. Chiang – Fundamentals of Mathematical Economics, McGraw Hill, New York.
- Aggarwal, S.C. & R.K. Rana - Basic Mathematics for Economics, V.K. Enterprise, New Delhi.
- R.G.D Allen. – Mathematics for Economics, Mc Milan Press.
- Taro Yamane – Mathematics for Economics – An Elementary Survey Prentice Hall of India, Pvt. Ltd. New Delhi.

II. **CORE COURSE**   **[CCECO102]:**   (Credits: Theory-04, Tutorial-01)

| Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 | Pass Marks (MSE:17 + ESE:28)=45 |

Instruction to Question Setter:
Mid Semester Examination (MSE):
*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):
*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: *There may be subdivisions in each question asked in Theory Examinations*
*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*
(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

MICRO ECONOMIC ANALYSIS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Consumer Behavior and Demand Analysis

Theories of Demand –utility; indifference curve (income and substitution effects; Slutsky theorem, compensated demand curve) and their applications; Indirect utility demand functions (Hicksian and Marshallian) Elasticity (price, cross, income) of demand and elasticity of supply; Revealed Preference theory; Revision of demand theory by Hicks; Consumer's Surplus.

Module II: Theory of Production and Cost

Marginal productivity, rate of technical substitution, elasticity of input substitution, Production function – short period and long period; Law of Variable Proportions and Returns to Scale; Isoquants least cost combination of inputs; Leontief's Isoquants, Returns to factors; Economics of Scale and scope, Learning curve; Multiproduct Firm; Cobb-Douglas, CES, Traditional and Modern theories of cost.

Module III: Price & Output Determination in Perfect Competition and Monopoly

Perfect competition Equilibrium in short run and long run of firm and industry.
Monopoly – short run and long run equilibrium, price discrimination, monopoly power. Monopsony – price and output determination.
Bilateral monopoly - price and output determination.

Basic Reading List

- Baumal- Economic theory and Operations analysis, Prentice Hall.
- Breit, William and Hochman, Harold M-Readings in Microeconomics, Rinehart and Winston Inc.
- G S Madala- Microeconomics
- Hal R Varian and W.W. Norton - Microeconomic Analysis (third edition).
- Koutsoyiannis- Modern Microeconomics, Macmillan.
- Robert S Pindyck and Daniel L Rubinfeld- Microeconomics (fifth edition), Prentice Hall.
- Steven E Landsburg -Price Theory and Applications, (fifth edition), South Western Thomson Learning.
- Walter Nicholson- Microeconomic Theory: Basic Principles and Extensions (eighth edition), South Western Thomson Learning.

Session 2018-20 Onwards

III. **CORE COURSE**   **[CCECO103]:**   (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:
Mid Semester Examination (MSE):
There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
          The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.
(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

MACRO ECONOMIC ANALYSIS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Micro Foundations:

Macroeconomics: micro foundations, aggregation problem, macroeconomic problems; Structure of national accounts, key concepts in measurement for both closed and open economies, computational issues, input-output accounting.

Module II: Consumption Function:

Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income and Life Cycle Hypotheses, Consumption under Uncertainty – Modern approach.

Module III: Investment Function:

Keynesian Approach, Accelerator Theory, Neo-Classical Theory of Investment, Tobin's Q Theory of Investment.

Module IV: Demand for Money:

Quantity theory of money, Keynesian approach, Baumol and Tobin's contribution, Friedman's restatement of quantity theory of money, revival of monetarism.
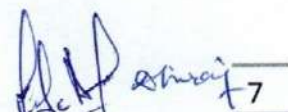
Module V: Supply of Money

Financial intermediation — a mechanistic model of bank deposit determination; A behavioural model of money supply determination, A demand determined money supply process; High powered money and Money multiplier , Budget deficits and money supply; money supply and open economy; control of money supply.

Basic Reading List:

- Branson, W.A. (1989): Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
- B.L Scarfe. (1977): Cycles, Growth and Inflation, McGraw Hill, New York.
- D.L. Romer, (1996): Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
- E Shapiro. (1996): Macroeconomic Analysis, Galgotia Publications, New Delhi.

Session 2018-20 Onwards

- G. Ackley, (1978): Macroeconomics: Theory and Policy, Macmillan, New York.
- Hall, R.E. and J.B. Taylor (1986): Macroeconomics, W.W. Norton, New York.
- Heijdra, B.J. and V.P. Fredericck (2001): Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- M.J.C. Surrey, (Ed.) (1976): Macroeconomic Themes, Oxford University Press, Oxford.
- R. Dornbusch and F. Stanley (1997): Macroeconomics, McGraw Hill, Inc., New York.
- R. Jha, (1991): Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- S.B Gupta: Monetary Planning for India
- S.B Gupta: Monetary Economics Institutions Theory and Policy.

IV.   CORE COURSE   [CCECO104]:   (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):
There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
           The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

ECONOMICS OF ENVIRONMENT

Theory: 60 Lectures; Tutorial:15 Hrs

Module I:

Economics of Natural Resources, Sustainable Development and Environmental Accounting

Meaning and Characteristics of Environmental Goods; Theories of Optimal use of exhaustible and renewable resources; Environmental and Development trade – off and the concept of sustainable development; Integrated environmental and economic accounting and the measurement of environmentally corrected GDP; Macroeconomic policies and Environment. Environmental Kuznets Curve, The Theory of Environmental Externalities, Pigouvian Taxes and subsidies, Coase's bargaining solution and collective action, New model of pollution control, Environmental Regulations and Enforcement.

Module II: Measurement of Environmental Values

Rationale for valuation of environment; concept of Total Economic Values, direct and indirect methods of Valuation; Methods based on response to hypothetical markets, Contingent valuation methods. Travel Cost method; Hedonic Pricing Method.

Module III: Environmental and Natural Resource Problems and Policies in India

Mechanism for environment regulation in India; Environmental laws and their implementation; National Environmental Policy; Water Policy; Forest Conservation Act; Forest regulation Act; WTO and environment; Climate change and International Agreements.

Basic Reading List

Bhattacharya, R.N. (2006): Environmental Economics, An Indian Perspective, Oxford University Press, New York.

Divan Shyam and Armin Rosencranz (2008): Environmental Law and Policy in India, Cases, Material and Statutes, Oxford University Press, New York.

Ganesamurthy, V.S. (2009): Environmental Economics in India, New Century Publications, New Delhi, India.

Sankar, Ulaganthan (2006): Environmental Economics, Oxford University Press, New York.

T. Eugine (2008): Environmental Economics, Vrinda Publications (P) Ltd.

Tietenberg, Tom(2004): Environmental and Natural Resource Economics, Pearson Education.

Session 2018-20 Onwards

SEMESTER II 4 Papers

Total 100 x 4 = 400 Marks

I. **CORE COURSE** **[CCECO201]:** (Credits: Theory-04, Tutorial-01)

| Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 | Pass Marks (MSE:17 + ESE:28)=45 |

Instruction to Question Setter:

Mid Semester Examination (MSE):
*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):
*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: *There may be subdivisions in each question asked in Theory Examinations*
*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

ECONOMICS OF SOCIAL SECTOR

Theory: 60 Lectures; Tutorial:15 Hrs

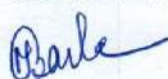**Module I: Education, Health and Development**

Capability & Empowerment Approaches, Education as public goods, Education as an instrument of economic growth, Women's Education, Recent trends in Women Education, Committees and Commission on Education, Adult Literacy and Non Formal Education for economic development.

Module II: Economics of Education Human Capital Vs Physical Capital

Demand for Education – Private Demand and Social Demand, determinants of demand for education, costs of education, private costs and social costs, Wastage and Stagnation in education, Benefits of education : Private and Social benefits, Cost benefit analysis of education.

Module III: Economics of Health

Health dimensions of development determinants of health, poverty, malnutrition and environmental issues, economic dimension of health care – demand and supply of health care, Financing of health care and resource constraints in health care and its delivery, Inequalities in health: class and gender perspectives, institutional issues in health care delivery, public expenditure on health in India, Health status of women in India, mortality and morbidity factors influencing health and nutrition.

Session 2018-20 Onwards

Module IV: Resource Mobilisation in Education:

Pricing problem in education, role of grants and subsidies, effects of education, ability and family background on earnings, poverty and income distribution effects of educational pricing and subsidies on income distribution and employment, public expenditure on education in India, Educational planning in developing countries with special emphasis in India.

Module V: Development Policy in India:

Gender Analysis framework, Gender Mainstreaming and Gender Budgeting. Analysing Policy and Programmes: Gender blind Gender Neutral and Gender Redistributive Policy. Women's education – gender bias in enrollment, drop-outs, Information Technology – Impact on women's development sustainable development and impact on women. Health status of women in India – Mortality and morbidity factors influencing health and nutrition. Globalization and Women in India.

Basic Reading List

- Arya P.P. and B.B. Tandon (Ed) 2004 : Human Resource Development, Deep & Deep Pub. New Delhi.
- Goel, S.L. and P.N. Gautam (2005) : Human Resource Development in the 21st century, Concept and case studies, Deep & Deep Pub. New Delhi.
- Meier, Gerald M. amd James' E. Rauch (2010) : Leading issues in economic development, Oxford Univ. Press, New York.
- Todaro, Michael P and Stephen C. Smith (2003) : Economic Development, Pearson Education Ltd.
- World Development Report (World Bank)
      Human Development Report (UNDP)

Session 2018-20 Onwards

II.   **CORE COURSE**   **[CCECO202]:**   (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   **Pass Marks (MSE:17 + ESE:28)=45**

Instruction to Question Setter:

<u>*Mid Semester Examination (MSE):*</u>
*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

<u>*End Semester Examination (ESE):*</u>
*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: There may be subdivisions in each question asked in Theory Examinations
*   The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

ECONOMICS OF IMPERFECT MARKETS, THEORIES OF DISTRIBUTION & WELFARE
Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Price & Output Determination Imperfect Competition

Chamberlin's approach to Monopolistic Competition, Oligopoly – Non Collusive models – classical & kinked demand model – Collusive Models - Cartels and price leadership model.

Module II: Alternative Theory of the Firm

Baumol's Sales Maximisation Theory, Willamson's model of managerial discretion. Morris model of managerial enterprise. Hall & Hitch full cost pricing theory. Game Theory Models.

Module III: Distribution

Micro theories of distribution – Marginal Productivity theory, Product exhaustion theorem, Theory of distribution in imperfect markets. Macro theories of distribution – Ricardian Theory Marxian Theory Kaleckis theory & Kaldor's Theory.

Module IV: Welfare Economics 1
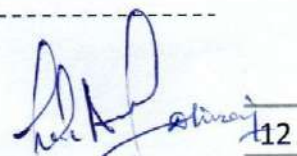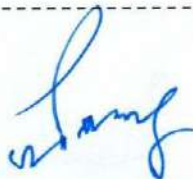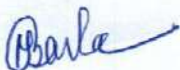
Definition and scope of welfare economics, Pigou's welfare economics ,Pareto optimal & contract curve, condition of optimum production and optimum exchange & optimum consumption

Module V: Welfare Economics 2

Compensation criteria – Contribution of Kaddor, Hicks and Scitosvky, Social welfare function, Theory of second best, Arrows' Impossibility Theorem.

Basic Reading List

- Arrow, K.J. (1951) Social Choice and Individual Values, Yale Univ. Press.
- Pigou, A.C. (1962) Economics of Welfare (4th Edition) Mac Milan.
- Samuelson, P.A. (1947) Foundation of Economic Analysis, Howard Univ. Press.

Session 2018-20 Onwards

12

III. CORE COURSE   [CCECO203]:   (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):
There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

MACROECONOMICS THEORY, INDIAN FINANCIAL INSTITUTIONS
Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Neo classical and Keynesian Synthesis
Neo-classical and Keynesian views on interest; The IS-LM model; Extension of IS-LM model with government sector; Relative effectiveness of monetary and fiscal policies; Extension of IS-LM models with labour market and flexible prices.

Module II: Theories of Inflation
Various concepts of Inflation: Core, Headline, Threshold, Its causes and effects, Quantity theory view, Keynes' view. Phillips curve analysis, long run Phillips curve, Monetarist and Structuralist views of inflation. Inflation and Growth.

Module III: Trade Cycle Theories
Accelerator-multiplier interaction models, Theories of Schumpeter, Kaldor, Samuelson and Hicks, Investment and Savings; Control of business cycles — relative efficacy of monetary and fiscal policies.

Module IV: Monetary and Fiscal Policies :
Objectives, conflicts among objectives, Mundell-Fleming model, Recent Developments : Monetarism. New-classical macroeconomics: Rational expectation revolution and Real business cycle theory. New-Keynesian macroeconomics.

Module V: Indian Financial Markets
Indian Money Market , characteristics , major stakeholders and instruments , Call Money Market, Treasury bill Market, commercial bill market, Certificate of Deposits, Commercial Papers, Discount Market Indian Capital Market – Structure and types Indian Capital markets ,major stakeholders and instruments, Non-Banking Financial Companies ,Regulatory bodies SEBI and IRDA, their functions.

Basic Reading List

- Ackley,G. (1978), Macroeconomics : Theory and Policy, Macmillan, New York.
- Blackhouse, R. and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 Vols.), Oxford University Press, London.
- Branson, W.A. (1989), Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
- Dornbusch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc., New York.
- Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W.W. Norton, New York.
- Heijdra, B.J. and V.P. Fredericck (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
- Scarfe, B.L. (1977), Cycles, Growth and Inflation, McGraw Hill, New York.
- Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.
- Surrey, M.J.C. (Ed.) (1976), Macroeconomic Themes, Oxford University Press, Oxford.

IV.   **CORE COURSE**   **[CCECO204]:**   (Credits: Theory-04, Tutorial-01)

| Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45 |

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations

The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

PUBLIC ECONOMICS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Introduction

Market Failure and Rationale for Government Intervention, Provision of Private Goods, Public Goods, Social Goods, Merit Goods and Mixed Goods. Public Goods: Pureand Impure Public Goods: Samuelson Condition, Free Rider Problem, Lindahl Solution.

Module II: Principles of Taxation

Principle of Fiscal Neutrality, Excess Burden, Doctrine Principle of Equity, Benefit Principle, Bowen and Lindhal Principles in Developing Countries. Application of Taxation Principles in Developing Countries, Meaning, Types and Measurement of Taxable Capacity.

Module III: Impact and Incidence of Taxes

Concept of Impact and Incidence, Theories of Shifting and Incidence Shifting under Different market Conditions.

Module IV: Public Expenditure

Wanger's Law Wisemen – Peacock Hypothesis Pure Theory of Public Expenditure Social Cost – Benefit Analysis.
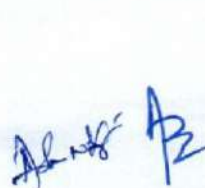
Module V: Public Debt

Classical, Keynesian and Post – Keynesian Approaches of Public Debt. Burden of Public Debt. Public Debt Management, The Fiscal Responsibility and Budget Management Act, 2003 (**FRBMA**) and Public debt Management

Module VI: Indian Public Finance

Fiscal Federalism in India Centre-State financial relations in India Analysis of Central and State Government Budgets, GST and fiscal federalism, Fiscal Crisis and Fiscal Sector Reform in India.

Basic Reading List

- Musgrave Richard (1989) : Public Finance in Theory and Practice, McGraw Hill Book Co., New York.
- Buchaman J.M. (1970) : The Public Finances, Richard D. Irwin, Homewood.
- Singh S.K. (1986) : Public Finance in Developed and Developing Countries, S. Chand and Co. Ltd., New Delhi
- Chelliah R.J. (1971) : Fiscal Policy in Underdeveloped Countries.
- Henmlata Rao (2006) : Fiscal Federalism – Issues and Policies, New Country Publications, New Delhi
- Atkinson A.B. and J.E. Siglitz (1980) : Lectures on Public Economics, Tata McGraw Hill, New Delhi.
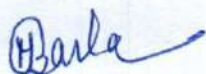- Government of India, Reports of the Tax Reforms Committee.
- Government of India, Budget Documents (Various years)
- Mundle, Sudipto (ed.) : Public Finance – Policy Issues for India, oxford University Press, 1997.
- Srivastava, D.K. (Ed.) Fiscal Federalism in India: Cotemporary Challenges and Issues Before Eleventh Finance Commission, 2001.
- Reserve Bank of India, Handbook of Statistics on Indian Economy (Various Issues)

SEMESTER III   **4 Papers**

Total 100 x 4 = 400 Marks

I.   ABILITY ENHANCEMENT COURSE   [ECECO301]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):

*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):

*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: *There may be subdivisions in each question asked in Theory Examinations*

*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

SOFT'S SKILL FOR
ECONOMICS   **Theory: 60 Lectures; Tutorial:15 Hrs**

Module I: Basics of Communication and Effective Communication

Basics of communication: Definition of communication, Process of Communication, Barriers of Communication, Nonverbal Communication. Effective communication: Johari Window, The Art of Listening, Kinesthetic, Production of Speech, Organization of Speech, Modes of delivery, Conversation Techniques, Dialogue, Good manners and Etiquettes.

Module II: Resume Writing and Interview Skills

Resume Writing: What Resume? Types of Resume? Chronological, Functional and Mixed Resume, Steps in preparation of Resume. Interview Skills: Common interview questions, Attitude, body Language, The mock interviews, Phone interviews, Behavioral interviews.

Module III: Group Discussion and Team Building

Group Discussion: Group Discussion Basics, GD Topics for Practice, Points for GD Topics, Case Based and Article based Group Discussions, Points for Case Studies, and Notes on Current Issues for GD. Personal Effectiveness: Self Discovery, Self Esteem, and Goal setting. Conflict and Stress Management.

Module IV: Numerical Ability
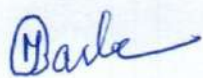
Average, Percentage, Profit and Loss, Simple Interest, Compound Interest, Time and Work, Pipes and Cisterns, Time and Distance, Problems on Trains, Boats and Streams Calendar, Rations and Proportions.

Module V: Test of Reasoning

Verbal Reasoning: Series Completion, Analogy, Data Sufficiency, Assertion and Reasoning, Logical Deduction. Non-Verbal Reasoning: Series, Classification.

Session 2018-20 Onwards

Basic Reading List

- Aggarwal, R.S. 2010 Quantitative Aptitude, S. Chand & Sons.
- Aggarwal, R.S.2010. A Modern Approach to Verbal and Non Verbal Reasoning. S.Chand
- Covey, Stephen.2004. Habits of Highly effective people, FreePress.
- Egan, Gerard.1994.The Skilled Helper (5thEd).Pacific Grove, Brooks/Cole.
- Khera,Shiv 2003.You CanWin. Macmillan Books, Revised Edition
- Murphy, Raymond.1998.Essential English Grammar. 2nd ed.,Cambridge Univ. Press.
- Prasad,L.M.2000.Organizational Behaviour ,S.Chand
- Sankaran, K.,&Kumar,M.2010 Group Discussion and Public
  Speaking. M.I.Pub,Agra, Adams Media.
- Schuller, Robert.(2010). Positive Attitudes. Jaico Books.
- Trishna's (2006). Howtodowellin GDs & Interviews, Trishna Knowledge Systems.
- Yate, Martin.(2005). Hiring the Best: A Manager's Guide to Effective Interviewing and Recruiting.

II.   **CORE COURSE**   **[CCECO302]:**   (Credits: Theory-04, Tutorial-01)

| Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45 |

Instruction to Question Setter:
Mid Semester Examination (MSE):
*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):
*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: There may be subdivisions in each question asked in Theory Examinations
*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

INTERNATIONAL ECONOMICS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I. Theory of International Trade
Theory of Comparative Cost Advantage. Theory of Opportunity Cost. Heckscher – Ohlin Theory of Trade. Leontief of Paradox, Rybezyuski Theorem.

Module II: Terms of Trade & Gains from Trade
Concept of Terms of Trade. Factors affecting Terms of Trade. Technical Progress and Terms of Trade.

Nature, Sources and factors affecting Gains from Trade. Measurement of Gains from Trade.

Module III: Theory of Intervention
Types of Intervention. Free Trade versus Protection Effects of Tariff on National Income, Output, Employment, Consumption, Terms of Trade and Income Distribution (Stopler Samuelson Theorem).Effects of quota on National Income, Output, Employment, Terms of Trade and Income Distribution ,Quotas versus Tariffs , Nominal, Effective and Optimum rates of Tariff.

Module IV: Exchange Rate & Balance of Payment
Theories of Exchange rate determination – Purchasing Power Parity, Fixed and Flexible. Fixed versus Flexible Exchange Rate. Demand and Supply Theory of Exchange rate determination. Exchange Control

– Meaning, Objectives & Methods Concept and Significance of Balance of Payment.
Disequilibrium in Balance of Payment and methods to correct.
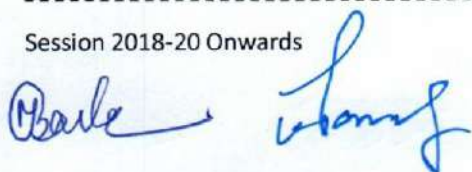
Module V: Theories of Regional Blocks
Forums of Economic Cooperation – Free Trade area, Custom Union, Common Market. Theory of Custom Union – Trade Creation and Diversion effects.

Basic Readings List
- Bhagwati, J.N. (ed) : International Trade, Selected Readings, Cambridge University Press.
- Kirdleberger : International Business.
- Paul R Krugman, Maurice Obsfeld : International Economics, Theory & Practice, (Pearson).
- Soderston, B O (1991) : International Economics, Macmillon Press

---

Session 2018-20 Onwards

III.   CORE COURSE   [CCECO303]:   (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:
Mid Semester Examination (MSE):
*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain** descriptive type five questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):
*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: There may be subdivisions in each question asked in Theory Examinations
*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

RESEARCH METHODOLOGY AND ELEMENTARY ECONOMETRICS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Concept of Research
Types of Research – Theoretical and Applied, Descriptive and Explanatory, Quantitative & Qualititative, other types of Research; Steps in Research.

Module II: Research Process
Formulation of Research Problems, Hypothesis & Research questions.

Module III: Research Design
Concept and importance; Features of a good research design, Concept of independent and dependent variables, concomitant variables, extraneous variables, Treatment and Central group.

Module IV: Data for Research
Quantitative and Qualititative, Cross section time series and panel data, sources of data; Primary and Secondary, Techniques of Primary data collection, Questionnaire and Interview, observation and case study.

Module V: Statistical Methods
Descriptive statistics and its uses. Interpretation of data: editing, coding, tabulation and presentation. Inferential statistics – its use. Properties of a good estimator, Use of chi-square, t z and F test.

Module VI: Elementary Econometrics
Definition of Econometrics, steps in Econometric research, Two variable linear model , assumptions , least square estimates of the parameters , testing significance of the estimated parameters , confidence limits , ANOVA

Module VII: Layout of Research Paper
Report writing, Bibliography and Reference writing.

Basic Readings List
- Kothari : Research Methodology
  Deepak Chawla & N. Sondha: Research Methodology, Concept & Case, Vikas Publishing House Pvt. Ltd.
- Ranjit Kumar: Resaerch Methodology for Beginners, Pearson Publication.

Session 2018-20 Onwards

20

IV.   **CORE COURSE**   **[CCECO304]:**   (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:
Mid Semester Examination (MSE):
*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):
*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: There may be subdivisions in each question asked in Theory Examinations
*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

ECONOMIC GROWTH AND DEVELOPMENT

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Introduction
Economic growth and Economic Development, Indicators of Economic growth – various indices, capability approach, Factors affecting economic growth - capital, labour & technology.

Module II: Theories of Economic Development
Adam Smith's theory , The Ricardian theory, Mill's theory, The Marxian theory, The Schunpeterain theory.

Module III: Approaches to Development
Nurkse's Theory of Disguised Unemployment as a saving potential, Lewis' Theory of Unlimited Supplies of labour, Fei-Renis Theory, Jorgenson's Neo-classical Model of a Dual Economy, Endogeneous Growth Models.

Module III: Some Other Approaches to Development
Leibenstein's critical minimum effort Thesis, Nelson's Low - level equilibrium Trap, The Big push Theory, The Doctrine of Balanced Growth, The Concept of Unbalanced Growth, Dualistic Theories, Dependence theory of Development

Basic Reading List:
- Adelman : Theories of Economics of Growth & Development, Stanford Uni. Press).
- S. Ghatak: An Introduction Development Economics, Allen & Ulwin.
- J. Hogendorn: Economic Development, Addison Wesley.
- C. P. Kindleberger: Economic Development, McGraw Hill
- H. Myint: The Economic of Underdeveloped Countries
- M. P. Todaro : Economic Development
- G. M. Meier: Leading Issues in Economic Development
- A. P. Thirwal: Growth & Development, McMillan
  Higgins: Economic Development.

Session 2018-20 Onwards

SEMESTER IV   4 Papers

Total 100 x 4 = 400 Marks

I.   GENERIC/DISCIPLINE CENTRIC ELECTIVE   [ECECO401A]:

(Credits: Theory-04, Tutorial-01)

| Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45 |

Instruction to Question Setter:

Mid Semester Examination (MSE):
*There will be two groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):
*There will be two groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: *There may be subdivisions in each question asked in Theory Examinations*
        *The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

A.   ADVANCE MATHEMATICAL ECONOMICS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Theory of Optimization

Conditions for relative maximum and minima values , extreme values, one variable, two variable case, quadratic forms ,concavity and convexity of functions, optimization with equality constraints , Lagrange and total differential methods, First and second order conditions, quasi concavity and quasi convexity

Model II: Application of optimization theory:
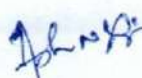
Utility maximization and consumer demand, Slutsky equation; Compensated and normal demand functions; Homogeneous Production Function Least cost combination of inputs , expansion path Cobb-Douglas Production Function CES production Function Producer's Equilibrium, Constrained Optimization of a producer, Input demand functions; Adding up Theorem

Model III: Market Equilibrium

Single Market equilibrium, Multi Market Equilibrium system, Existence, Stability and Uniqueness of Equilibrium.

Model IV: Application of Matrices

Solution of Non-homogenous and homogenous equations systems, characteristics roots and vectors; linear programming - simplex and graphic method of solution; primal and dual formulation and solution; Game theory – solution with pure and mixed strategies – graphic

method, equation method and linear programming method. Input-output analysis – open and
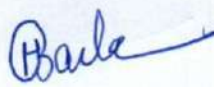
closed models; static and dynamic models, Simon – Hawkins conditions, IS-LM model in a closed economy.

Model V: Growth models and fluctuations

General and particular solutions of first, second and third order linear difference and differential equations ,complex numbers and complex roots ,Cobweb model ,Determination of income and fluctuations in income – Classical and Keynesian macro systems; Static and dynamic multiplier, Trade cycle models of Samuelson and Hicks ,Growth models – Harrod, Solow

Basic Reading List

- A.C. Chiang – Fundamentals of Mathematical Economics, Mc Graw Hill, New York.
- R.G.D Allen. – Mathematics for Economics, Mc Milan Press.
- Taro Yamane – Mathematics for Economics – An Elementary Survey Prentice Hall of India, Pvt. Ltd. New Delhi.

OR
GENERIC/DISCIPLINE CENTRIC ELECTIVE   [ECECO401B]:

(Credits: Theory-04, Tutorial-01)

| Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100 | Pass Marks (MSE:17 + ESE:28)=45 |

Instruction to Question Setter:

Mid Semester Examination (MSE):
There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

B.   AGRICULTURAL ECONOMICS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Agriculture and Economic Development

Nature and scope of agricultural and rural economics: Traditional agriculture and its modernization; Role of agriculture in economic, development; interdependence between agriculture and industry-some empirical evidence Models of interaction between agro and the rest of the economy; Agricultural development, poverty and environment.

Module II: Diversification of Rural Economic Activities

Livestock economics- livestock resources and their productivity; Problems of marketing; White revolution; Fishery and poverty development; Forestry, horticulture and floriculture; Issues and problems in rural industrialization and development of agro-based industries.

Module III: Economics of Rural Infrastructure

Use of Land, water and energy; rural transport, communication, .banking, extension services, role, modes and problems of rural electrification; rural social infrastructure- education and health and information dissemination. ,

Module IV: Agricultural Production and Productivity

Agricultural production resource use and efficiency production function analyses in agriculture. Factor combination and resources substitution cost and supply curves size of farm and laws of returns theoretical and empirical findings; Farm budgeting and cost of concepts; Supply. Response of individual crops and aggregate supply; Resource use efficiency in traditional agriculture; Technical change, labor absorption and gender issues in agricultural services.

Module V: Land Reforms and Land Policy

Principles of land utilization; Land distribution structure and trends; Land values and rent; Land tenures and, farming systems- peasant, capitalist, collective and state farming; Tenancy and crop sharing-forms, incidence and effects; Land reform measures and performance; Women and land reforms ; Problems of marginal and small farmers.

Module VI: Rural Labor Market

Rural Labour Supply, Interlocking of factor markets; Mobility of labor and segmentation in labor-markets, marginalisation of rural labor; Nature extend and trends in rural unemployment, Agricultural wages in India, male-female wage differences, Non-Agricultural rural employment-trends and determinants.

Module VII: Rural Finance

Role of capital and rural credit; Organized and unorganized capital market; rural savings and capital formation; Characteristics and sources of rural credit - Institutional and non institutional; reorganization of rural credit- cooperatives, commercial banks, Regional rural banks, Financial Inclusion , Role of NABARD.
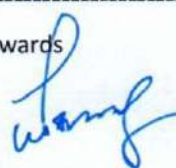
Module VIII: Agricultural Prices

Marketing and state Policy; Agricultural markets and marketing efficiency; Marketing functions and costs; Market structure and imperfections regulated marketed and marketable and marketable surplus Behaviour of agricultural price – Cobweb model, Price and income stability; State policy with respect to agricultural marketing Warehousing; Prices, Taxation and crop insurance; Terms of trade between

agriculture and non-agricultural Prices; Need for state intervention; Objectives of agricultural Price policy; instruments and evaluation; Food security in India and public distribution system.

Module IX: Agriculture and External Sector

International Trade in agricultural commodities; Commodity agreements- Role of World Trade Organization. Issues in liberalization agreement- of domestic and International trade in agriculture- 6.4. Nature and feature of agri-business; Role of MNCs.; Globalization of Indian economy and problems and prospects of Indian Agriculture Impact of World Trade Organization on Indian Agriculture.

Basic Reading List

Bhaduri, A. (1984), The Economic Structure of Backward Macmillan, Delhi.

Bilgrami, S.A.R. (1996), Agricultural Economics, Himalan Publishing House, Delhi.

Dantwala, M.L.et. al (1991) Indian Agraicuttural Development since independence, Oxford and IBM, New Delhi.

Government of India (1976), Report on the National Commission on Agriculture, New Delhi.

Government of India, Economic Survey (Annual) ,New Delh

Gulati, A. and T. Kelly (1999) Trade Liberalization and Indian Agriculture, Oxford University Press, New Delhi.

Joshi, P.C. (1975) Land Reforms in India, Trends and Prospective, Allied Publishers, Bombay.

Kahlon, A.S. and D.S.Tyagi (1983), Agriculture Price Policy India, Allied Publishers, New Delhi. . Rao, C.H. Hanumantha (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi. ,

Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.

Rudra, A.(1982) Indian Agricultural Economics: Myths and Reality, Allied Publishers, New Delhi.

Saini, G.R.(1979)Farm Size, Resourse Use Efficiency and Income Distribution, Allied Publishers, N. Delhi.

OR
GENERIC/DISCIPLINE CENTRIC ELECTIVE   [ECECO401C]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:
Mid Semester Examination (MSE):
There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
        The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. **"Best of Two"** shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

C.   MANAGERIAL ECONOMICS

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Nature and Scope of Managerial Economics
Definition of Economics and Managerial Economics-Nature, Scope, functions, Uses and Limitations of Managerial Economics.

Module II: Demand Analysis
Meaning-Law of Demand and its determinants- Meaning, types and degrees of elasticity-Measurement of price elasticity- Meaning- Factors involved in forecasting- Methods of forecasting- Survey method, graphical method and experimental method-criteria for good forecasting.

Module III: Production Analysis
Meaning and the managerial use of a production function.- Law of variable proportions- Iso-quant-properties and the equilibrium .Meaning-Total, Average and Marginal cost(simple problems to calculate these values) Meaning-Total, Average and Marginal revenue (simple problems to calculate these values) Meaning-construction of a break even chart (any one with simple practical application of it)-and the margin of safety.

Module IV: Techniques of Pricing
Full cost pricing- Marginal pricing – Target pricing-Peak load pricing –Going rate pricing-Cyclical pricing-Customary pricing-Product-line pricing-Skimming pricing-Penetrating pricing-Pricing of joint product, new product.

Basic Reading List
- Joel Dean: Managerial Economics, Prentice Hall of India, 1987.
- P.L.Mehta: Managerial Economics-Analysis, problems and causes. Sultan Chand & Sons,1992
- R. L. Varshney and K.L. Maheswari: Managerial Economics. Sultan Chand & Sons,1987.

Session 2018-20 Onwards

S. Sankaran- Economics Analysis, Margham Publications, Madras,1991.

II.   GENERIC/DISCIPLINE CENTRIC ELECTIVE   [ECECO402A]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:
Mid Semester Examination (MSE):
*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

End Semester Examination (ESE):
*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: There may be subdivisions in each question asked in Theory Examinations
*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

A.   ECONOMETRICS   Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Basic Econometrics, Nature, Meaning and scope of econometrics. Methodology of econometric analysis, the simple linear regression and general linear regression model, Assumption, Estimation and Properties of OLS Estimates, Gauss Markov Theorem, Concept and Derivation of R^2 and adjusted R^2, Concept and analysis of variance approach and its application inregression analysis.

Module II: Problems in Regression Analysis: Nature, test, consequences and remedial steps of problems of heteroscedasticity, multicollinearity and auto-correlation, problems of specification error, Errors of Measurement.

Module III: Regression with Qualitative Independent Variables: Dummy Variable Technique – Testing Structural Stability of Regression Models comparing to regression, Interaction Effects, Seasonal Analysis, Piecewise linear regression, Use of dummy variable in regression with dummy dependent variables, The LPM, Logit, Probit and Tobit models – Application.

Module IV: Dynamic Econometric Model: Auto-regressive and Distributed Log Models – KOYCK Model, Partial Adjustment Model, Adaptive Expectations, Granger causality Test

Module V: Simultaneous-Equation Models, Simultaneous Equation Bias, The Identification Problems, A test of simultaneity, Simultaneous equation (Methods of estimation).

Basic Reading List

Koutsoyiannis, A. (1977) : Theory of Econometrics, 2nd Edition, The McMillan Press Ltd. London
Gujarati, D.N. (1995) : Basic Econometrics, 2nd Edition Mc Graw Hill, New Delhi.
Gujarati, D.N., Dawn, C. Porter & Sangeetha Gunasekar. (2012) : Basic Econometrics (5th Edition) Tata Mc Graw Hill Education Pvt. Ltd., New Delhi.
Amemiya, T. (1985) : Advanced Econometrics, Haward Univ. Press, Cambridge, Mass
Maddala, G.S. (Ed) (1993) : Econometric Methods and Applications (2 Vols) Aldershot, UK.
Krishna, K.L. (Ed) (1997) : Econometric Application in India, Oxford Univ. Press, New Delhi.

Session 2018-20 Onwards

OR

GENERIC/DISCIPLINE CENTRIC ELECTIVE   [ECECO402B]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):
There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

B.   DEMOGRAPHY

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Introduction to Demography

Meaning, subject matter and Importance of demography, Source of Demographic date – Census, Sampling, Registration, Source of Demographic date in India – Census, NFHS, NSSO, Registration System in India. Trends in composition & Distribution of India Population – Sex, Age, Religion, Rural, Urban, Occupation. Demographic rate in India – Fertility, Mortality, Literacy, Poverty

Module II: Measurement of Population Growth

Meaning of Population Growth, Models of Population Growth and Population Projection. Population Pyramid.

Module III: Factor affecting Population Growth

Fertility -Meaning, Important Concepts – CBR, ASBR, TFR, GRR, NRR; Factor affecting Fertility., Mortality - Meaning, Important Concepts – CDR, ASDR, IMR, MMR, NMR, NNMR, CSDR; Factors affective Mortality, Migration - Meaning, Type, Effects and Factors Promoting Migration. Urbanization - Meaning, Causes and Effects. Neutrality -Meaning, Important Concepts and determinants

Module IV: Theories of Population

Malthusian Theory, Optimum Theory, Theories of Demographic Transition – Views of Blackes, Marx & Cowgill, Biological Theories, Socio-Economic Theories.

Module V: Population Growth and Development

Relationship between population growth & economic development, Human development
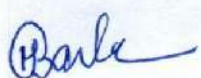
– Meaning, Index and relationship with population growth, Relationship between population growth and environment degradation, Relationship between population growth & health, nutrition & productivity.

Module VI: Migration and Urbanization

Concept and types-temporary, internal and international; International migration- its effect on population growth and pattern; factors affecting migration;-Theories of migration related to internal migration; Urbanization - growth and distribution of rural-urban population in developing countries.

Basic Reading List

Agarwala, S.N. (1972), India's Population Problem , Tata McGr Hill Co., Bombay.

Bose, A. (1996), India's Basic Demographic Statistics, B. Publishing Corporation, New Delhi.

Bogue, D.J. (1971), Principles of Demography, John Wiley, N York.

Chenery, H. and T.N.Srinivasan, (Eds) (1989), Handbook Development Economics, Vol. 1 and 2, Choubey, P.K. (2000), Population Policy in India, Kanish Publication, New Delhi.

Coale, A. J. and E.M. Hoover (1958) Population Growth a Economic Development in Low Income Countries: A case study of India's prospects, Princeton University Press, Princeton

Gulati, S.C. (1988), Fertility in India; An Econometric Study A Metropolis, Sage Publications, New Delhi.

OR
GENERIC/DISCIPLINE CENTRIC ELECTIVE   [ECECO402C]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):
There will be **two groups** of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):
There will be **two groups** of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations
        The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. **"Best of Two"** shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

C.   ECONOMICS OF LABOR

Theory: 60 Lectures; Tutorial:15 Hrs

Module I: Labour Economics and Labour Problems
Meaning and concepts of labour- Definition, nature, scope and importance of labour economics, Nature of labour problems, labour market segmentation, labour in unorganized sector, child labour, Industrial Labour Organization (ILO).

Module II: Industrial Labour in India
Meaning and characteristics of Industrial Labour in India, employment in organized sector, meaning and objective of trade unions, trade union movement in India, Problems and draw backs of the movement in India – Measures to strengthen the Trade Union Movement in India-Industrial disputes: meaning and causes and effects of industrial disputes, prevention of Industrial disputes and the machinery of setting disputes- prevention of Industrial disputes in India, Labour Legislation in India Indian, Labour Laws and practice in relation to international standards.

Module III: Agricultural Labour in India
Meaning and characteristics of agricultural labour in India casual labour and attaches labour and bounded labour, the problems of agricultural labour in India, Government measures to improve the conditions of agricultural labour, employment in agricultural sector, marginalization minimum wages, MNREGA.
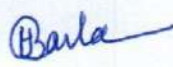
Module IV: Wages
Wage determination – classical, neoclassical and bargaining theories of wage determination, wage differentials in India, Asymmetric information and efficiency of labour markets in wage determination, productivity and wage relationship non wage component of labour remuneration, types of wages in India, the need for State Regulation of wages, national wages policy and wage Board in India.

Session 2018-20 Onwards

Module V: Social Security Measures of Labour in India

The meaning and the need for social security measures in India, present status of social security in India, social assistant and social insurance review and appraisal of states policies with respect to social security and labour welfare in India, Social security Legislations in India, Workmen's Competition Act, 1923, Employees' State Insurance Scheme Act, 1948, Maternity Benefits Act 1961 and the Provident Fund, 1952, Labour Welfare Funds, Unemployment insurance, Second National Commission of Labour (1999), Dr. Arjun Sengupta Committee report.

Basic Reading List

- B.P. Tyagi (2009), Economics of labour and Social Welfare- Revised Edition, Sage Publication, New Delhi.
- C.S Venkata Rathnam (2001) Globalisation and Labour management Relations, Dynamics of Change, Sage Publication, New Delhi.
- C.B Memoria (1996) Labour Problems and Social Welfare in India, Kitab Mahal, Allahabad
- G Dutta (1966) Barganing Power, Wages and Employment: An Analysis of Agricultural Labour Markets in India, Sage Publication, New Delhi.
- R. A Lester (1964) Labour Restructuring in India: A Critique of the New Economics of Labour, Macmillan, New Delhi.

III.   <u>CORE COURSE</u>   [CCECO403]:   (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100   Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

<u>*Mid Semester Examination (MSE):*</u>

*There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.*

<u>*End Semester Examination (ESE):*</u>

*There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.*

Note: There may be subdivisions in each question asked in Theory Examinations

*The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. "**Best of Two**" shall be applicable for computation of marks for SIA.*

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks).

INDIAN ECONOMICS   Theory: 60 Lectures; Tutorial:15 Hrs

Model I : Structure of the Indian Economy

Main sectors of the Economy and subsectors within each main sector – GNP, Sectoral composition of Income and changes over time at the major sectoral level, the sub-sectoral level within each major sectors. Concepts of Economic Growth and development, Appraisal of growth and development status of Indian Economy.

Model II: Population and Human Resources

Conflicting views on role of population growth in development process, Composition of population in India, Birth and Death rates of population in India, Growth of population, Demographic transition, Role of education in Economy – Literary levels in India, Role of Health in Economy, Health Status in India

Model III: Agriculture

Role of Agriculture in the Indian Economy – Land use Pattern, 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, imbalance in the use of pesticides and fertilizers, limited access to agricultural machinery and marketing pattern.

Model IV: Industry

Role of industrialization in the economy, Importance and problems of large small scale and medium scale industries in India and their remedial measures. Financial Institutions providing short term and long term industrial credit. Industrial Policy revolution of 1991.

Model V: Service Sector

Role of service sector in the economy – Banking, Insurance, transport and Communication, trade, Hotels and Restaurants.

Model VI: External Sector

Structure and Direction of facing Trade Balance of payments. Issues in Export Import Policy & FEMA Exchange rate policy, Foreign Capital and MNC's in India, Globalisation of Indian Economy. W.T.O. and its impact in different sectors of the economy.

Basic Reading List

- Mishra & Puri : Indian Economy, Himalaya Publishers, New Delhi, 2008.
- Rudra Dutt & Sundaram : Indian Economy, S. Chand Publication Co, New Delhi, 2008
- Indian Development Report, Oxford University Press, New Delhi

----

Session 2018-20 Onwards

III. <u>CORE COURSE (PROJECT)</u>   [PRECO404]:   (Credits: 05)

Marks : 100 (ESE: 3Hrs)=100	Pass Marks =45

Guidelines to Examiners for

<u>*End Semester Examination (ESE):*</u>

Evaluation of project dissertation work may be as per the following guidelines:

Project model (if any) and the Project record notebook   = 70 marks
Project presentation and viva-voce   = 30 marks
(Jointly conducted by One External & One Internal Examiners)

Overall project dissertation may be evaluated under the following heads:
- *Motivation for the choice of topic*
- *Project dissertation design*
- *Methodology and Content depth*
- *Results and Discussion*
- *Future Scope & References*
- *Presentation style*
- *Viva-voce*
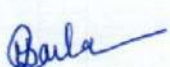
DISSRERTATION/ PAPER PRESENTATION

➤ Student alone or in a group of not more than five, shall undertake one Project approved by the Subject Teacher/H.O.D. of the Department/College concerned. The progress of the Project shall be monitored by the faculty members at regular intervals.

OR

➤ Dissertation on 'Topic Provided'

DISTRIBUTION OF CREDITS FOR P.G. PROGRAMME (SEMESTER-WISE) FOR POSTGRADUATE 'P.G. Voc./M.Sc./M.A./M.Com' PROGRAMME

Table B-1: Semester wise distribution of 80 Credits for Subjects with Practical Papers.

Semester	CC	FC	GE/DC	AE	Total credits
Semester I	15	05			20
Semester II	20				20
Semester III	15			05	20
Semester IV	5		15		20
	55	05	15	05	80

Table B-1: Semester wise distribution of 80 Credits for Subjects without Practical Papers.

Semester	CC	FC	GE/DC	AE	Total credits
Semester I	15	05			20
Semester II	20				20
Semester III	15			05	20
Semester IV	10		10		20
	60	05	10	05	80

CC=Core Course; FC=Foundation Compulsory/Elective Course; GE=Generic Elective; SE=Skill Enhancement Course; DC=Discipline Centric Elective

SAMPLE CALCULATION FOR SGPA & CGPA FOR POSTGRADUATE 'P.G. Voc./M.Sc./M.A./M.Com' PROGRAMME

Table B-2: Sample calculation for SGPA for M.Sc./M.A./M.Com Programme

Course	Credit	Grade Letter	Grade Point	Credit Point (Credit X Grade)	SGPA (Credit Point/Credit)
Semester I					
FC	05	A	8	40	
C-1	05	B+	7	35	
C-2	05	B	6	30	
C-3/CP	05	B	6	30	
Total	**20**			**135**	**6.60 (135/20)**
Semester II					
C-4	05	B	6	30	
C-5	05	C	5	25	
C-6	05	B+	7	35	
C-7/CP	05	A+	9	45	
Total	**20**			**135**	**6.60 (135/20)**
Semester III					
EC-1	05	A+	9	45	
C-8	05	0	10	50	
C-9	05	A	8	40	
C-10/CP	05	A	8	40	
Total	**20**			**175**	**8.75 (175/20)**
Semester IV					
EC-2/EC-2	05	B	6	30	
EC-3/EC-3	05	A+	9	45	
C11/EP	05	B	6	30	
Project	05	A+	9	45	
Total	**20**			**150**	**7.50 (150/20)**
CGPA					
Grand Total	**80**			**595**	**7.44 (595/80)**

Table B-3: Sample calculation for CGPA for P.G. Vocational M.Sc./M.A./M.Com Programme

Semester I	Semester II	Semester III	Semester IV
Credit:20; SGPA:6.60	Credit:20; SGPA: 6.60	Credit:20; SGPA: 8.75	Credit:20; SGPA: 7.50

Thus CGPA= (20x6.60+20x6.60+20x8.75+20x7.50) /80=**7.36**

Session 2018-20 Onwards

DISTRIBUTION OF MARKS FOR EXAMINATIONS AND FORMAT OF QUESTION PAPERS

Distribution of Marks for Mid Semester Evaluation:

Table No. 15: Distribution of marks of Theory Examinations of Mid Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A	Group B
Mid Sem*	T30*	30 (20 +5 +5)	17	1 Hr	5 x1 =5	3 (out of 5) x5 =15	05	5

*There shall be 20 marks theory examination for mid sem, 05 marks for attendance/ regular interactions & 05 marks for seminar/ assignment/ term paper given by faculty concerned in classrooms.

Distribution of Marks for End Semester Theory Examinations:

Table No. 16: Marks distribution of Theory Examinations of End Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A# (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A#	Group B
End Sem	T50	50	--	3 Hrs	2 x5 =10	2 (out of 3) x20 =40	2	3
	T70	70	28	3 Hrs	Q.No.1 (5x1) + 1x5 =10	4 (out of 6) x15 =60	2	6

Question No.1 in Group-A carries very short answer type questions of 1 Mark

Note :   There may be subdivisions in each question asked in Theory Examinations.

Session 2018-20 Onwards

FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION

20 MARKS

St. Xavier's College, Ranchi

Mid Sem No.   Exam Year

Subject/ Code

F.M. =20   **Time=1Hr.**

General Instructions:

A. **Group A** carries very short answer type compulsory questions.
B. **Answer 3 out of 5** subjective/ descriptive questions given in **Group B**.
C. Answer in your own words as far as practicable.

iv. Answer all sub parts of a question at one place.
    Numbers in right indicate full marks of the question.

v.   **Group A**

     ....
     ....
1. ....   [5x1=5]
2. ....
3. ....
4.   **Group B**
5. ....

6. ....   [5]
7. ....   [5]
8.   [5]
9.   [5]
10. ....   [5]

Note: There may be subdivisions in each question asked in Theory Examination.

FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

70 MARKS

St. Xavier's College, Ranchi

End Sem No.   Exam Year

Subject/ Code

F.M. =70   **P.M.=28**   **Time=3Hrs.**

General Instructions:
  i. **Group A** carries very short answer type **compulsory** questions.
  ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.
  iii. Answer in your own words as far as practicable.
  iv. Answer all sub parts of a question at one place.
  v. Numbers in right indicate full marks of the question.

Group A

1.   [5x1=5]

       i.   ....
       ii.   ....
       iii.   ....
       iv.   ....
       v.   ....

2. ....   [5]

Group B

3. ....   [15]

4. ....   [15]

5. ....   [15]

6. ....   [15]

7. ....   [15]

8. ....   [15]

Note: There may be subdivisions in each question asked in Theory Examination.