DEPARTMENT OF ECONOMICS

UNIVERSITY OF BURDWAN

Syllabus for Ph.D Course work
2020-21 Session onwards

Preamble

The Department of Economics, University of Burdwan proposes to revise the syllabus for Ph.D Coursework in Economics leading to Ph.D degrees, keeping in line with the recent UGC guidelines, University Regulations, changing academic scenario and needs of both academics and job-market.

The salient features of the syllabus are as follows:

- The Coursework shall be spread over 1 semester (6 months).
- One core compulsory paper on Research & Publication Ethics shall be of 2 credits
- All other papers shall be of 4 credits each requiring 4 lecture hours per week.
- A candidate has to earn 14 credits to qualify in the Coursework
- The credits to be earned are as follows:

Paper	***Credit***
Research & Publication Ethics	2
Research Methodology (Core Paper)	4
2 Elective Papers	4 each = 8
TOTAL	14

- There shall be two types of papers/courses: Core Course – A course which should compulsorily be studied by a candidate as a core-requirement is termed as a Core course. These are compulsory courses under the concerned department; Elective Course – Generally a course which can be chosen from a pool of courses.
- 6 credits shall have to be earned from Departmental Core Courses on Research & Publication Ethics and Research Methodology and shall be Compulsory (marked with an * in the framework)
- A minimum of 4 credits shall have to be earned from Departmental Elective Papers (marked with a # in the framework)
- A student may opt entirely for Departmental Elective Courses
- A student may opt for Electives from sister departments subject to extant University regulations allowing them to do so. In this case a maximum of 4 credits can be earned from Non-departmental Electives (note that departmental class-routine shall not accommodate such non-departmental electives).
- Each paper of 4 credits shall have 4 hour session of Lectures per week over a period of one semester of 16 weeks for teaching-learning process.
- The paper of 2 credits shall have 2 hour session of Lectures per week over a period of one semester of 16 weeks for teaching-learning process.
- The performance of a candidate in a theoretical course (paper) will be assessed for a maximum of 50 marks as explained below:
    - 40 marks as end-semester examination
    - 10 marks as Term Paper/Seminar Presentation/Practical/ Assignment, modalities for which are to be decided by the concerned course-in-charge and notified to the students at the beginning of the semester. For the paper on Research Methodology, this will be in the form of Computer Practical and Assignment.

- The performance of a candidate in the paper on Research & Publication Ethics will be assessed for 25 marks based on Written Examination at end of semester (20 marks) and Continuous Practical Assessment (5 marks).
- The performance of a candidate in a Literature Review paper will be assessed for 50 marks based on assessment of the Review submitted during end of semester.
- In case of any difference between the clauses cited here and University Regulations, the University Regulations shall prevail.

Framework of the Syllabus

Name of Paper	***Type***	***Credit***		***Pattern***		
			Marks	L	T	P
Ph.D Coursework ***[Students have to choose 2 core courses and 2 Electives = 14 credits]***						
Research Methodology-I (ECN PHDCW 101)	**Core Compulsory**	4	50	2	0	2
Research & Publication Ethics (ECN PHDCW 102)	**Core Compulsory**	2	25	1	0	1
Advanced Econometrics-I (ECN PHDCW 103 A)[@]	**Elective**	4	50	3	0	1
Agricultural Economics (ECN PHDCW 103 B)[@]	**Elective**	4	50	4	0	0
Resource Economics and Sustainable Development (ECN PHDCW 103 C)[@]	**Elective**	4	50	4	0	0
Advanced Financial Economics (ECN PHDCW 103 D)[@]	**Elective**	4	50	4	0	0
Advanced Econometrics-II (ECN PHDCW 103 E)[@]	**Elective**	4	50	3	0	1
Labour Economics (ECN PHDCW 103 F)[@]	**Elective**	4	50	4	0	0
Term Paper & Seminar Presentation (ECN PHDCW 104)*	**Elective**	4	25+25 =50	0	0	4

**** This term paper is mainly based on literature survey.***

@ Students have to opt for TWO Elective courses. They may opt for ONE Non-departmental Elective paper upon prior approval of departmental committee and University Regulations allowing them to do so. One of the Elective papers may be Term paper & Presentation

Question Pattern

1. In each paper of 50 marks (4 credits) the End-semester examination shall be of 40 marks. There shall be 8 questions of 10 marks each from which 4 questions are to be answered by the candidates (Time 2 hours).
2. In each paper of 50 marks (4 credits) which has two groups within it the End-semester examination shall be of 40 marks. There shall be 4 questions of 10 marks from each group. Candidates are to answer 4 questions taking 2 from each group. (Time 2 hours).
3. The performance of a candidate in the paper ECN MPHIL 100 on Research & Publication Ethics will be assessed for 50 marks based on Written Examination at end of semester (20 marks) and Continuous Practical Assessment (5 marks).
4. Group-C of paper ECN PHDCW 101 (Research Methodology-I) shall be based on Practicals and will be internally assessed.
5. Paper ECN PHDCW 104 (Term Paper on Literature Review) shall be in the form of an assignment which the candidate shall have to submit within a stipulated date fixed by the Doctoral Committee and thereafter has to present it in the form of a seminar.

DETAILED SYLLABUS

[Any Elective paper will be offered only if a minimum number of students opt for it]

ECN PHDCW 101

Research Methodology-I

Full Marks: 50

Lecture Hours: 64

This paper has three groups A, B and C. Group C is Compulsory. Additionally Candidates are required to opt for either Group A or Group B. However, both Group A, Group B may not be offered in a given year.

Group A
Methodology for Empirical Research

1. **Practical Issues in Testing of Hypothesis (20 Lecture Hours)**
   One sample parametric tests - One sample mean test, ANOVA - One sample variance test; Two sample parametric tests - Two independent sample mean test, Paired means test, Two samples variance test; Test of significance for large and small samples – Student's 't' test and Z-test; tests for Mean and difference between means and difference between proportions; Non Parametric tests - Chi-square test; Mann-Whitney Test; Wilcoxon Signed Rank Test

2. **Field Survey Techniques (20 Lecture Hours)**
   Overview of the survey process; Sources of survey error; Sample design; Question design; Question testing; Methods of data collection; Psychology of survey response; Accounting for non-response; Use of survey weights; Post-Collection Data Adjustments; Legal/Ethical Issues in Survey Research

Group B
Methodology for Theoretical Research

1. **Basic Mathematical Foundations (20 Lecture Hours)**
   a. Linear algebra;
   b. Differential calculus of functions of several variables,
   c. Elementary real analysis;

2. **Optimisation Techniques; (20 Lecture Hours)**
   a. Unconstrained and constrained classical optimization
   b. Static Optimisation
   c. Dynamic Optimisation;

Group C
(Compulsory Part: Computer Applications)

[This part is based on Practicals and is Internally Assessed]

1. **Computer Usage – Basics (2 Lecture Hours)**

2. **Programs for Document Preparation and Presentation (4 Lecture Hours)**
3. **Spreadsheet Solutions (6 Lecture Hours)**

4. Using Cross-sectional data estimation programs (12 Lecture Hours)

Data visualisation & Descriptive statistics; Hypothesis testing (one- and two-sample); Tests of association for Nominal and Categorical data; Multiple linear regression and solution of associated problems; Analysis of variance (ANOVA)

References

Allen, R. G. D. (1974) Mathematical Analysis for Economists, Macmillan Press and ELBS. London

Angrist, Joshua D. and Jorn-Steffen Pischke (2008), Mostly Harmless Econometrics: An Empiricist's Companion [PB], Princeton University Press

Apostol, T.M. (1974) – "Mathematical Economics", 2nd edition, Addison Wesley

Archibald, G.C. & R.G. Lipsey (1976) – "An Introduction to Mathematical Economics--Methods and Applications", Harper and Row.

Avellaneda, Marco (ed) (2001) – "*Quantitative Analysis in Financial Markets*", Vol. I, Vol. II and Vol. III, World Scientific.

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Chiang, A. C. (1992) – "Elements of Dynamic Optimization", McGraw Hill.

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Dixit, A.K. (1990) – "Optimization in Economic Theory", Oxford University Press.

Dixit, A.K. and Susan Skeath (1999) – "Games of Strategy", W. W. Norton & Company

Dorfman, R., P.A. Samuelson and R.M. Solow (1958) - Linear Programming and Economic Analysis", McGraw Hill

Fudenberg, D., and J. Tirole (1991) – "Game Theory", MIT Press

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Goodle William J. Hatt Paul K.: Methods in Social Research, McGraw-Hill Book Company.

Gravelle, H. and R. Rees (2004) – "Microeconomics", 3rd Edition, Prentice Hall

Gujarati, D (Latest Edition) - Basic Econometrics, Tata McGraw Hill;

Hadley, G. (1962) Linear Programming, Addison Wesley, Publishing Co. Massachusetts.

Hardle, W. (1990), Applied Nonparametric Regression, Econometric Society Monographs, Cambridge

J.C. Hull (2002) – "Options, Futures & Other Derivatives", Prentice-Hall of India : New Delhi.

J.Y. Campbell, A.W. Lo and A.C. Mackinlay (1997) – "The Econometrics of Financial Markets", Princeton University Press : New Jersey, 1997.

Ken Binmore (1991) – "Fun and Games: A Text on Game Theory", D. C. Heath and Company

Kothari, C. R. (1992) – "An Introduction to Operations Research", Vikas Publishing House, New Delhi.

Kurien, CT (ed.), A Guide to Research in Economics, Sangam Publishers, Madras, 1973.

Lancaster, K. (1975) – "Mathematical Economics",.

Mustafi, C. K. (1992) – "Operations Research Methods and Practice", Wiley Eastern, New Delhi.

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Scotter A Miller 2007 Developmental Research Methods, Sage Publication

Shy, Oz (1996) – "Industrial Organization: Theory and Applications", MIT Press

Silberberg, E. (2000) – "The Structure of Economics: A Mathematical Analysis", McGraw Hill

Vygodsku, G. S. (1971) Mathematical Handbook (Higher Mathematics) Mir Publishers, Moscow.

Yuh-Dauh Lyuu : Financial Engineering and Computation, Cambridge University Press.

ECN PHDCW 102

Research & Publication Ethics

Full Marks: 25

Lecture Hours: 32

This paper has two groups – A & B.

Group A

Theory

3. Introduction to Ethics in Social Science Research **(5 Lecture Hours)**

Philosophy of Research – Epistomology; Orintology; Axiology

Ethics: Concept, moral philosophy nature of moral judgments and reactions in social science research - Philosophical Attitude in Research

4. Introduction to Scientific conduct in Social Science Research **(5 Lecture Hours)**

Intellectual Honesty and Research Integrity: Concept and Importance - Scientific Misconducts: Falsification, Fabrication and Plagiarism (FFP) - Redundant Publication: Duplicate and Overlapping publications, Salami Slicing - Selective Reporting and Misinterpretations of Data.

5. Ethics in Research Publications: **(10 Lecture Hours)**

Publication Ethics: Meaning and importance - Best practices and Quality mandates in Research: Committee on Publications Ethics (COPE) and its role, World Association of Medical Editors (WAME)- Its Functions - Publication Misconducts: Meaning, problems and types, identifications of publication misconducts, complaints and appeals - Predatory Publishers and Journals.

Group B

Practice

3. Open access publishing in Social Science Research **(3 Lecture Hours)**

a. Open Access Publications Sources
b. Publisher's copy-right and self achieving policies: (SHERPA) and ROMEO as Online Resources.
c. SPPU : Software identification for predatory publications
d. JANE, Elsevier Journal Finder, Springer & Journal suggested in Journal Finders.

4. Publication Misconduct **(3 Lecture Hours)**

a. FFP issues in Social Science Research
b. Creation and practice on account relating to Plagiarism, Detection Software (PDS) like URKUND and TURNITIN.

5. Data Bases & Research Metrics **(6 Lecture Hours)**

a. Indexing Databases
b. Citation Databases : Scopus & Web of Science etc,
c. UGC- CARE
d. Impact Factor: SNIP, SJR, IPP, Cite score, etc.
e. Research Metrics: h-Index, g-index, i10 index, AltMetrics, etc.

References

Blaikie, Norman (2007) *Approaches to Social Enquiry: Advancing Knowledge*, Blackwell Pub

Buchanan, Elizabeth (2003). Readings in Virtual Research Ethics: Issues and Controversies: Information Science Publishing.

Comstock, Gary (2013). Research Ethics: A Philosophical Guide to the Responsible Conduct of Research: Cambridge University Press.

Elliott, Deni (1997) Research Ethics – A Reader: University Press of New England.

Jones, Julie Scott (2011). Research Ethics in Practice (Fundamentals of Applied Research): SAGE Publications Ltd.

Pruzan, Peter (2011). Research Methodology: The Aims, Practices and Ethics of Science: Springer.

Punch, Keith F (2013). Introduction to Social Research: Quantitative and Qualitative Approaches : SAGE Publications Ltd.

Thorat, Sukhadeo et al. (2018). Social Science Research in India: Status, Issues, and Policies: Oxford Publishing House.

Tolich, Martin (2009). Qualitative Ethics in Practice

Wiles, Rose (2012). What Are Qualitative Research Ethics?: Bloomsbury Publishing India.

ECN PHDCW 103

Optional: ECN PHDCW 103 A

Advanced Econometrics - I

(Time Series Econometrics)

Full Marks: 50

Lecture Hours: 64

1. ARIMA Modelling (10 Lecture Hours)

Testing for Stationarity – Stationary, TSP and DSP;

Determining Order of Integration - Checking for Cointegration;

Box-Jenkins methodology of Identification, Estimation and Diagnostic Checking of ARIMA Models;

2. Causality Tests and Vector Auto Regression (10 Lecture Hours)

Granger Causality

Vector Auto Regression (VAR) – Strength of Causality – Impulse Response Function – Variance Decomposition;

3. Long Run Relationships (10 Lecture Hours)

Vector Error Correction (VEC) Models – Long Run Multipliers – Impact Factors

Spline Function and Dynamics of Relationship.

4. Working with Panel Data (16 Lecture Hours)

General definitions – Balance and Unbalanced Panel; Pooled Regression

6. Using Time Series data estimation programs (10 Lecture Hours)

7. Using Panel data estimation programs (8 Lecture Hours)

References

Amisano, Gianni and Carlo Giannini (1997) - Topics in Structural VAR Econometrics, 2nd ed, Springer

Angrist, Joshua D. and Jorn-Steffen Pischke (2008), Mostly Harmless Econometrics: An Empiricist's Companion [PB], Princeton University Press

Enders, Walter – Applied Time Series Econometrics.

Gujarati (2008) - Basic Econometrics, Tata McGraw Hill;

Johnston and Dinardo, (1997), Econometrics Methods, 4th edition, McGraw Hill International Edition.

Judge, George G., W. E. Griffiths, R. Carter Hill, Helmut Lütkepohl, and Tsoung-Chao Lee (1985). The Theory and Practice of Econometrics, 2nd edition, John Wiley & Sons.

Lütkepohl, Helmut (1991). Introduction to Multiple Time Series Analysis, Springer-Verlag.

Mills, T.C. (1991) - Time Series Techniques for Economists, CUP

Optional: ECN PHDCW 103 B

Agricultural Economics

Full Marks: 50

Lecture Hours: 64

1. **Importance of Agricultural Economics (8 Lectures)**

   Agriculture and Economic Development; Future Role of Agriculture; Main Feature of Indian Agriculture and Agricultural Policy; Soil Erosion, Conservation, and Sustainable Agriculture.

2. **Land Use (8 Lectures)**

   Land Utilization & Cropping Pattern; Forest and Social Forestry; Operational Holdings Fragmentation and Sub Division of Holdings; Land Reforms

3. **Agricultural Marketing and Pricing (20 Lectures)**

   Agricultural Price and Policy; Role of CACP; MSP and its impact; Agricultural Commodity Futures and Options; Nature and Principles of Future Markets; Participants in Future Markets; Trading in the Presence of Risk Aversions and Transaction Costs, Future Prices as Forecasts; Impact of Futures Trading; Agro-processing as Marketing Strategy; Specificities of Agro-processing, Developmental Role of Agro-processing Industries, Selection and Evolution Options; Food Processing Policy of India, 2005.

4. **Recent Issues in India Agriculture (16 Lectures)**

   Mechanization in Agriculture; Sources of Irrigation; Impact of Irrigation; Agricultural Finance: Agency Relationship, Adverse Selection, Moral Hazards and Enforcement Problem; Segmented Rural Credit Markets; Resolving Information and Incentive Problems; Managing Borrowers' Credit Risks, Agribusiness and Trade Financing and Role of Social Capital; Taxation on Agricultural Income; Role of NABARD;

5. **Farm Management (6 Lectures)**

   Farm Organization; Farm Planning & Budgeting; Co-operative farming

6. **Political Economy of Global Agricultural Economics (8 Lectures)**

   Protection across countries and sectors; Influence of global financial and political institutions; Collective actions of lobbying groups; Use of inefficient instruments and rent seeking; Public investment in agricultural research and TRIPS.

References

Agrawal, A.N. : Indian Agriculture

Bruce L. Gardner and Gordon C. Rausser (2002): Handbook of Agricultural Economics, Vol-1A,1B, 2A, 2B and 3; North-Holland, Amsterdam

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Government of India (2004): State of the Indian Farmer : A Millennium Study, Academic Foundation and Ministry of Agriculture, New Delhi, (Vol. 1-27)

Government of India (2005): Food Processing Policy, Ministry of Food Processing, New Delhi.

James G. Brown and Deloitte and Touche (1994): Agro-industrial Investment and Operations, Washington, The World Bank.

Khusro, A.M. : Reading in Agricultural Development

Khusro, A.M. and A.N. Agrawal - The Problem of Co-operative Farming in India

Khusro, A.M.- The Economic of Land Reforms and Farm size

Radhakrishna R, S. K. Rao, S. Mahendra Dev and K Subbarao (2006): India in a Globalising World: Some Aspects of Macroeconomy, Agriculture and Poverty, Academic foundation, New Delhi.

Sadhu & Singh : Agricultural Economics

T.W.Schultz (1981): Investing in Peoples: The Economics of Population Quality, University of California, Berkley.

Tygi, B.P. - Agricultural Economics & Rural Development

Optional: ECN PHDCW 103 C

Resource Economics & Sustainable Development

Full Marks: 50

Lecture Hours: 64

1. **Environment asset as pure public good (6 lectures)**

   Public vs Private Goods; Market failure and public good, optional allocation of resources for public good.

2. **Optional extraction of resources (10 lectures)**

   Exploration and extraction of exhaustible resources, common property resources; Methods, Rules, Theorems

3. **Conservation versus Exploitation (10 lectures)**

   Trade-off between exploitation of environment for development and environmental conservation; Modelling environmental preservation and development.

4. **Sustainable Development (6 lectures)**

   Concept of sustainable development, Environmental accounting and green NNP, The concept of green NNE as linearised Hamiltonian.

5. **Climate Change (16 lectures)**

   What is Climate Change; Modelling of the economics of green house effect and climate-change. Global warming problem – Causes and Consequences; Climate change and Economic Policies; Development & Climate Change

6. **International Treaty on Environment (16 lectures)**

   UNPCC; Montreal Protocol : Statement and explanation, Modelling of the benefits of Co-operative treaty compared to non-co-operation; Paris Declaration;

References

1. D Pearce and RK Turner: Economic of Natural Resources and the Environmen, Prentice.
2. N. Hanley, J. Shogren and B. White: Environmental Economics in Theory and Practice, Macmillan.
3. R.N. Bhattacharyya (Ed.) : Environmental Economics, OUP
4. J.M. Conrad and C. Clark : Natural Resource Economics, CUP
5. J.M. Conrad : Resource Economics, Cambridge University Press.
6. Phillip Neter : Natural Resource Economics.
7. Anthony Fisher : Environmental and Resource Economics, Edward Elgar
8. Kanchan Chopra, Purnamita Dasgupta "Natural Resource Dependence on Common Pool Resources : An Empirical Study EPW Feb 23-29, 2008.
9. D. Browley (Ed.) The Handbook of Environmental Economics, Blacked

Optional: ECN PHDCW 103 D

Advanced Financial Economics

Full Marks: 50

Lecture Hours: 64

1. Index Models, CAPM & APT: Models of asset returns, single index model, multi index model, estimation of beta; arbitrage pricing theory.
2. Fixed Income Securities: Introduction, measure of price sensitivity and hedging, portfolio performance evaluation.
3. Pricing of Option, Futures and other Derivative Assets: Pricing of futures & forward, Option Pricing models: Black & Shocks Model, real option pricing, Pricing of American Options, pricing of other derivatives.
4. Event Study Methodology and Volatility Measures: Various approaches to event study methodology, measurement of risk and returns & use of test statistics. Measures of asset price volatility.
5. Behavioral Finance: Basic premises of behavioral Finance, Revisiting Efficient Market Hypothesis and financial market anomalies, theories of behavioral finance.

Reference:

i. Compbell, J.Y.Lo.A.W. and Mackinloy ,A.C.: The Econometrics of financial Markets,Princeton University Press, 1997
ii. Dubotsky, D.A. and Miller, Thi Derivatines: Valuation and Risk Management, Oxford University Press, 2003
iii. Bodie, Z,A kare and A.J. Marcus: Investments, Irwin McGraw-Hill. 2005
iv. Fabozzi,F: Bond Market, Analysis and Strategies, prentice Hall, 2004
v. Tuckmon, B: Fixed Income Securities, Willey Finance, 2002
vi. Hull , J: Options, Futures and other Derivatives, fifth edition, Prentice Hall, 2002.
vii. Elton, E.J. and M.J. Gruber: Modern Portfolio Theory & Investment Analysis ,(4^{th} edition), John Wiley & Sons. 1991.
viii. M.M. Sulphey Behavioral Finance, P.H.I., 2014.

Optional: ECN PHDCW 103 E

Advanced Econometrics - II

Full Marks: 50

Lecture Hours: 64

Group A (25 marks)

Qualitative Regression Methodologies

1. Multiple Discrete Choice Models (16 Lecture Hours)

Ordered Probit / Logit; Sequential Probit / Logit; Methods of estimation; Multinomial Logit (MNL); the Independence of Irrelevant Alternatives (IIA) assumption; Multinomial Probit models; Measuring Goodness of Fit; Testing assumptions; Application of Multinomial Logit Models.

2. Using Software for Qualitative Regression (16 Lecture Hours)

Group B (25 marks)

Efficiency Estimation

1. Concepts of Efficiency Estimation (16 Lecture Hours)

Definitions of technical and scale inefficiency;

Input and output orientations (using functional relationships); Use of production & distance functions (graphical, mathematical, programming specifications)

Efficiency Indicators and Indexes: Farrell's Approach

Deterministic Frontier Models: (a) Linear and Quadratic Programming Method (b) COLS (c) MOLS

2. Software for Efficiency Estimation (16 Lecture Hours)

References

Angrist, Joshua D. and Jorn-Steffen Pischke (2008), Mostly Harmless Econometrics: An Empiricist's Companion [PB], Princeton University Press

Coelli T.J., Estache A., Perelman S. and Trujillo L. (2003), A Primer on Efficiency Measurement for Utilities and Transport Regulators, World Bank Publications, Washington.

Cooper, W.W., L. M. Seiford, and K. Tone, Data Envelopment Analysis: A Comprehensive Text with Models, Applications, References and DEA-Solver Software, Kluwer Academic Press, 2000.

Daraio, C. and L. Simar, Advanced Robust and Nonparametric Methods in Efficiency Analysis: Methodology and Applications, Springer, New York, 2007.

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Kumbhakar, S. and C.A.K. Lovell, Stochastic Frontier Analysis, CUP, 2000.

M. Farrell, 'The Measurement of Productive Efficiency,' Journal of the Royal Statistical Society, Series A, 1957, 120(3):253-290.

Maddala, G.S (1983), Limited-Dependent and Qualitative Variables in Econometrics, Econometric Society Monographs, Cambridge

R. Färe and S. Grosskopf, New Directions: Efficiency and Productivity, Springer Verlag, 2005.

Stock, James H. and Mark W. Watson (2007), Introduction to Econometrics, 2/E, Pearson

T. Coelli, D.S. Prasado Rao, Christopher O'Donnell, G. E. Battese, An Introduction to Efficiency and Productivity Analysis, second edition, Springer Science & Business Media, New York, 2005.

Optional: ECN PHDCW 103 F

Labour Economics

Full Marks: 50

Lecture Hours: 64

1. **Labour Markets:** **(16 lectures)**
   Nature and characteristics of labour markets in developing countries like India ; Paradigms of labour market analysis- classical, neo classical and dual labour merger, labour problems and their scope.

2. **Wage Determination:** **(16 lectures)**
   Concepts of minimum wage, living wage and fair wage; Productivity inflation and wage relationship.

3. **Industrial Relations:** **(16 lectures)**
   Trade Union's objectives and functions ; Collective bargaining ; types and theories; Trade Unions in India. Industrial Disputes in India Dispute Settlement Machinery in India.

4. **State & Labour:** **(16 lectures)**
   Concept of social security and its evolution; social assistance and social insurance; State policies with respect to social security and labour welfare in India; Exit policy, need for safety nets; Second National Commission on labour; Globalization and labour markets.

References

Dobb, Maurice: Wages

Dunlop, J. T.(ed.): Industrial Relations System

Dunlop, J. T.(ed.): Wage Determination under Trade Unionism.

Giri, V.V.: Labour Problems in Indian Industry.

Mitra, A.: Share of Wages in National Income.

Papola, T.S.: Principles of Wage Determination.

Rama Swami E.A,: Industry and Labour.

Reynolds, L.G. : Labour Economics and Labour Relations.

Rothchild : Theory of wages.

Saxena, S.R.and Saxena, R.C. : Labour Problems and Social Welfare.

Government of India : Indian Labour Year Book (Various Issues)

Government of India : Labour Investigation Reports (Main Reports)

Government of India : Report on National Commission on Labour, 1969.

Government of India : Economics Surveys.

I.L.O. : Annual Reports and Yearbooks

ILO Approaches to Social Security.

ECN PHD 104

Term Paper & Seminar Presentation

Full Marks: 50

25 on Term Paper + 25 on Presentation

This paper shall be in the form of a Term Paper which the candidate shall have to submit within a stipulated date fixed by the RAC and thereafter present it.

Frame work of guide lines for writing the Term Paper

I. Preliminary Section (of 500-750 words) providing Concept of literature review, Objectives of literature review, Importance of literature review, Methods/ procedure /steps in literature review, Types of literature review (classification), Sources of literature, Planning of the review work etc.

II. Main Review (of 3000-5000 words) with subsections on - Issue / Topic of Research and Motivation; Review of Existing Literature – International and National; Identification of research gaps and researchable issues; Proper Bibliography of the reviewed items (Books, Journals articles, Reports and documents, Working papers, Case Studies, Monographs, Edited volumes, Citations, Websites, Encyclopedias, Year books, Seminar reports and conference proceedings, Micro forms: Audio visual types, micro card, micro films, Research abstracts, University news, Unpublished thesis and other works .... Etc.)

The above guidelines are common to all the candidates. However depending on the research topic, the candidate and supervisor have the freedom to work out the micro details of the literature review.