

Far-western University
Faculty of Humanities and Social Sciences Mahendranagar,
Kanchanpur, Nepal
Master of Arts in Economics



**Graduate Course Cycle of
Economics**

	SEM I		SEM II
Subjects	Credit	Subjects	Credit
Microeconomics I	3	Microeconomics II	3
Macroeconomics I	3	Macroeconomics II	3
Mathematical Methods	3	Statistical Methods	3
Development Economics	3	International Trade & Development	3
Nepalese Economy	3	History of Economic Thought	3
	15		15
	SEM III		SEM IV
			Credit
Public Economics	3	Gov. Finance	3
Monetary Economics	3	Banking and Financial Institutions	3
Res. Method	3	Thesis	6
Optional (any two)	2x3=6	Optional (Any two)	2x3=6
Econometrics		Mathematical Economics	
Agriculture Economics		Env. & Natural Resource Economics	
Economic Demography		Labor & Human Resource Economics	
	15		18

Total Credit

15+15+15+18=

63

FAR WESTERN UNIVERSITY
Proposed Course Codes

M. A. Economics Ist Semester

Subjects	Credit	Sub. Code
1. Microeconomics I	3	ECO 511
2. Macroeconomics I	3	ECO 512
3. Mathematical Methods	3	ECO 513
4. Development Economics	3	ECO 514
5. Nepalese Economy	3	ECO 515
	15	

M. A. Economics IInd Semester

Subjects	Credit	Sub. Code
6. Microeconomics II	3	ECO 521
7. Macroeconomics II	3	ECO 522
8. Statistical Methods	3	ECO 523
9. International Trade & Development	3	ECO 524
10. History of Economic Thought	3	ECO 525
	15	

M. A. Economics IIIrd Semester

11. Public Economics	3	ECO 531
12. Monetary Economics	3	ECO 532
13. Research Methods	3	ECO 533
Optional (any two)	2x3=6	
14. Econometrics		ECO 534

15. Agriculture Economics		ECO 535
16. Economic Demography		ECO 536
	15	

M. A. Economics IV th Semester

17. Gov. Finance	3	ECO 541
18. Banking and Financial Institutions	3	ECO 542
19. Thesis	6	ECO 543
Optional (Any two)	2x3= 6	
20. Mathematical Economics		ECO 544
21. Env. & Natural Resource Economics		ECO 545
22. Labor & Human Resource Economics		ECO 546
	18	

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Microeconomics I**

Course No.: ECO 511

Nature of the Course: Theory

Year: First

Semester: First

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives: *This course intends to equip the students with the methods and tools to analyze the economic behavior of an individual unit by providing the advanced knowledge of microeconomic theories. It provides understanding of how individual economic agents like consumer and producer make decision in market. The students will have understating about how the different economics agents response and interact under various conditions.*

Unit I . Methodological concept

Equilibrium; stability of equilibrium; Analysis of equilibrium: static, dynamic, and comparative statics; Methods of science of economics- deductive, inductive, and hypothetico-deductive methods; Nature of economic laws and generalization; Importance of assumptions, hypothesis, and empiricism in economics. (6 hours)

Unit II. Theory of consumer's behaviors

Consumer's preferences, indifference curve and utility maximization, decomposition of price effect in to substitution and income effect(Slutsky and Hicks), and derivation of demand curve and Engel curve; revealed preference theory of utility analysis, consumer's surplus. (8 hours)

Unit II. Theory of production

Short run production function: law of variable proportion; long run production functions: returns to scale, technological progress and production function, some commonly used production function in empirical economics: Cobb-Doughlus and Constant Elasticity of Subsitiutions, their properties, producer's surplus (6 hours)

Unit III. Theory of Cost and Revenue

Short run and long run cost functions and their relationship with production functions; modern cost functions; and revenue under different market structures. (3 hours)

Unit IV. Perfect Competition

Nature and meaning of perfectly competitive market, short run and long run equilibrium of firm and industry, imposition of taxes and equilibrium properties of long run (6 hours)

Unit V. Monopoly

Meaning of monopoly: pure vs. natural monopoly; Short run and long run equilibrium and capacity utilization of the firm; multi-plant firm and bilateral monopoly ,price discrimination under monopoly. (6 hours)

Unit VI. Monopolistic competition: Equilibrium of the firm: Equilibrium with new firms entering the industry, equilibrium with price competition and equilibrium with price competition and free entry. (6 hours)

Unit VII. Classical Oligopoly: Non-collusive oligopoly: Cournot's duopoly model, Bertrand's duopoly model, Kinked-demand curve models. Collusive oligopoly: Cartels, price leadership and the basing-point price system. (7 Hours)

References

Ahuja, H.L. (2016). *Advanced economic theory: Microeconomic analysis*. New Delhi: S.Chand &Company Pvt. Ltd.

Ahuja, H.L. (2016). *Modern microeconomics*. New Delhi: S.Chand &Company Pvt. Ltd

Cowell, F. (2006): *Microeconomics: Principles and analysis*. New Delhi: Oxford University Press.

Gravell, H. and R. Rees (2004): *Microeconomics*(3rd ed.). New Delhi; Pearson

Koutsoyiannis, A. (1975). *Modern microeconomis*. London: *Palgrave MacMillan*

Koutsoyiannis, A. (1979): *Modern microeconomics* (2nd ed.). London: Macmillan.

Mas-Colell, A., Whinston, M.D. and Green J. (1995): *Microeconomic theory*. New Delhi: Oxford University Press

Salvatore, D. (2009). *Principle of microeconomics* (5th ed.). New Delhi: Oxford University Press.

Varian, H.R. (2010). *Intermediate microeconomics: A modern approach* (8th ed.). London: W. W. Norton & Company.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Macroeconomics I**

Course No.: ECO 512

Nature of the Course: Theory

Year: First

Semester: First

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objective:

This course intends to provide advanced knowledge on development of macroeconomic theories. Upon the completion of this course, students will be able to understand the analytical tools, theories and apply them in formulating macroeconomic policies.

Unit I: Basic Concepts

4

Macroeconomic variables; Static Economic Models, Dynamic Economic Models; Aggregation and its Problems; Macroeconomic Policy Goals

Unit II: National Income Accounting

8

Key Concepts of National Income Accounting- Gross National Product, Gross Domestic Product, Net National Product, Saving and Investment, Circular Flow of Income; Measurement of National Income- Expenditure Approach, Income Approach and Value Added Approach.

Unit III: Classical Theory of Income, Employment and Money

8

Says Law of Market; Quantity Theory of Money; Complete Classical System; Policy Analysis in Classical System

Unit IV: Simple Keynesian Models

8

Principle of Effective Demand; Equilibrium Level of Income and Multiplier Analysis in Two, Three and Four Sector Economy

Unit V: Keynesian Macro -System

10

Money in Keynesian System; Complete Keynesian System; Policy Effects in Complete Keynesian System; Introduction to IS-LM models, Policy Effects with IS-LM Models.

Unit VI: Recent Development in Macroeconomics

10

Monetarist's Approach - Proposition, Fiscal and monetary policy in Monetarism; **New Classical Macroeconomics**- Concept of Rational Expectation, Output and Employment Determination, Policy Implications; Introduction to **Real Business Cycle Theory**.

REFERENCES

- Ackley, G. (1961). *Macroeconomic theory*. New York: Macmillan
- Ackley, G. (1978). *Macroeconomic theory and policy*. New York: Macmillan
- Branson, W.H. (1983). *Macroeconomic theories and policy* (2nd ed.). New Delhi: All India Book Seller
- Central Bureau of Statistics (2007). *Manual in national income accounts*. Kathmandu: National Planning Commission.
- Dornbush,R. & Fischer S. (1987). *Macroeconomics*(, 4th ed.). New York: McGraw Hill Book Company.
- Froyen, R. T.(2003). *Macroeconomics: Theories and policies*, (7th ed.) New Delhi: Pearson Education.
- Levacic, R. (1978). *Macroeconomics*. London: Macmillan
- Patinkin, D.(1965). *Money interests and prices*. New York: Harper and Raw.
- Shapiro, E.(Various editions).*Macroeconomic analysis*. New Delhi: Galgotia Publication, Pvt. Ltd.
- Surrey, MJC. (1976) (Ed.). *Macroeconomic theme: Edited reading with commentaries*. London: Oxford.
- Vaish, M.C. (2002). *Macroeconomic theory*. New Delhi: Vikas Publishing House

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Mathematical Methods**

Course No.: ECO 513

Nature of the Course: Theory

Year: First

Semester: First

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

This course intends to acquaint the students with mathematical tools used in economics

Unit I: Basic Concepts

6

Basic concept on Logarithms; Differentiation- Single and Multivariate; Function; Integration; Concept of Sets; Concept of Vectors.

Unit II: Optimization

8

Optimization: Constraint and unconstrained optimization and their applications in production, cost and profit analysis

Unit III: Game theory

8

Concepts of Game theory; Pay off matrix; Saddle point; Mixed strategy; Dominant strategy Value of game under pure and mixed strategy.

Unit IV: Difference and Differential Equations

9

Difference and Differential Equations of first and second order with constant coefficients, constant term, and variable term

Unit V: Linear Programming

9

Graphic method; Simplex method; Duality theorems

Unit VI: Input-Output Analysis

8

Closed and open input-output model; Concept of Dynamic Input-output model.

REFERENCES

- Archibald and Lipsey (1984). *An introduction in mathematical treatment of economics*. London: ELBS
- Boumal, W.J. (1959). *Economic dynami*. New York: Macmillan
- Chiang, A.C. (1974). *Fundamental methods of mathematical economics*. Tokyo: McGraw Hill Kogakusa
- Chiang, A.C. and Wainwright, K. (1974,.). *Fundamental methods of mathematical economics*(4th ed.)Tokyo: McGraw Hill Kogakusa
- Dowling, E.T. (1992). *Introduction to mathematical economics*. New Delhi: McGraw Hill Books Company, (Schaum's outlineseries.)
- Frank, S. Bidnick (2014). *Applied Mathematics for Business, Economics and Social Sciences*, New Delhi: McGraw Hill Education (India),
- Pemberton, M. & Rau,N.(2017). *Mathematics for economists* (4th ed.). New Delhi: Viva Books
- Yamane, T. (2013). *Mathematics for economists: An elementary survey*. New Delhi : PHI Learning, Pvt. Ltd.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Development Economics**

Course No.: ECO 514

Nature of the Course: Theory

Year: First

Semester: First

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

The objective of this course is to provide analytical knowledge about development economics making familiar with relevant development theories, policies and strategies of economic development. After completion of the course student will be able to apply this knowledge in to development practices.

Unit 1. Introduction to Development

TH 5

Conceptualizing development; Historical perspectives on development; Dimensions of development; Economic growth, development and Justice; Obstacle to growth and development

Unit 2. Theories of Growth and Development

TH11

Schultz Theory of Transformation of agriculture; Lewis Theory of Unlimited supply of labour; Harrod-Domar Growth model; Rostow Stages of Economic growth; Balanced vs. Unbalanced Theory of growth; New Development Paradigm

Unit 3. Factors Affecting the Development

TH11

Financing of Economic Development; Dimensions of Human Resource Development; Natural Resources, biodiversity, climate change and development; Technology and Development; Values, Institutions (Civil Society, NGOs, Private Sector) and Development; Capital formation; Foreign Trade; Foreign Direct Investment

Unit 4. Policy Issues in Development-Domestic and International

TH13

Measuring Poverty and Inequality and development; Unemployment: Types, measurement and consequences of unemployment; Liberalization, Globalization and Role of State in Development; The Debt Crisis: Challenges on stability and development; Impacts of liberalization and globalization on growth and equity

Unit 5. Planning System and Implementation

TH 8

Concept and Ideology of Planning: Planning in Socialist, Capitalist and Mixed Economies; Types of planning: Periodic and Perspective Planning, Local Development Planning, Regional Development Planning; Project Planning: Growth Pole and Growth Centre; Capital-Output Ratio: Estimation and Use of Capital-Output Ratio; Stage and Components of Project Appraisal; Criteria and Use of Cost-Benefit Analysis

References

- Bardhan, K. & Klasen, S. (1999). UNDP's gender related indices: A critical review *World Development*, 27, 985-1010
- Basu, K. (2002). *Analytical Development Economics*. New York and New Delhi: OUP.
- Blakely, E.J. & Bradshaw, T.K. (2003). *Planning local economic development: Theory and Practice*, (3rd ed.), New Delhi: Vistar Publication.
- Chandna, R.C. (2004). *Regional planning and development*. New Delhi; Kalyani Publishers.
- Chang, Ha-J. (2003) *Globalization, economic development and role of the state*. London Zed Books.
- Chaubey, P.K. (1995). *Poverty Measurement : Issues, Approaches, and Indices*. New Delhi: New Age International (P) Limited Publishers.
- Dale Reidar (2004). *Development Planning*. New Delhi : Academic Foundation.
- Das, Gupta, Ajit K. and D.W. Pearce (1978). *Cost-Benefit Analysis: Theory an Practice*. London: ELBS/Macmillan.
- Hayami, Y. (1997). *Development Economics*. New York: OUP.
- Karna, S. K. (2007). *Economic planning theory and practice*: Kirtipur: Quest Publication.
- Karna, Sohan Kumar (2007). *Economic Planning Theory and Practice*. Kirtipur: Quest Publication.
- Lamy, P. (2006). *Globalization and global governance*.
- Little, I.M.D. and J.A. Mirrless (1974). *Project Appraisal and Planning for Developing Countries*. London: Heinemann.
- Meier, G.M. & Rauch, J.E. (2000). *Leading issues in economic development*. (8th ed.) New York: OUP
- Potts, D. (2005). *Project planning and analysis for development*. New Delhi: VIVA Books Private Limited.
- Ray, D. (2003). *Development economics*. New Delhi: OUP.
- Reidar, D. (2004). *Development planning*. New Delhi: Academic Foundation.
- Sen, A.K.(1992). *Inequality Reexamined*. Oxford: OUP.
- Sharma, Sharad (2005). "Monitoring and Evaluation(M&E) of Development Projects: Issues Facing Nepal", in *The Economic Journal of Nepal*, Central Department of Economics, Tribhuvan University.
- Smith, G. (2001). *Globalization and governance*. Annual meeting of the Trilateral commission in London.
- Subramanian, S. (2000). *Measurement of Inequality and Poverty*. Delhi: OUP.
- The World Bank, Annual World Bank Conference on Development Economics, Various Years.
- The World Bank, *World Development Reports*, Related Issues.
- The World Bank. *World Development Reports*.
- Thirlwall, A. P. (1999). *Growht and development*. (6th ed.). Macmillan.
- Todaro, M. P. and Smith, S.C. (2013). *Economic Development. (10th ed.)* New Delhi: Pearson Education.
- Utting, P. & Clapp J. (2008). *Corporate accountability and sustainable development*. OUP.
- Waltz, K.N. (1999). *Globalization and governance*. Columbia University.
- World Bank (2002). *Globalization, Growth, and Poverty: Building an Inclusive World Economy*. New York: The World Bank and The Oxford University Press.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Nepalese Economics**

Course No.: ECO 515

Nature of the Course: Theory

Year: First

Semester: I

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

The objective of this course is to provide basic knowledge of various facets of Nepalese economy to analysis the status, efforts and policies of economic development in Nepal.

Unit 1. Current Status of Nepalese Economy and Comparison to SAARC Nations TH4

Structure of Nepalese economy: Rural vs. Urban, Formal vs. Informal, Subsistence vs. Commercial; Macroeconomic indicators of Nepal in comparison to SAARC nations; Major challenges of Nepalese Economy

Unit 2. Foundation of Nepalese Economy

TH6

Agriculture: Status, Problem and Prospect; Natural resources and bio-diversity: Status, problem and prospect; Population and human resources: Status, problem and prospect

Unit 3. Sectoral Development

TH12

Primary sector: Status Problem and Prospect; Secondary sector: Status, Problem and Prospect; Territory sector: Status, Problem and Prospect; Infrastructure (Physical and Social): Status, Problem and Prospect

Unit 4. Fiscal policy and Resources Mobilization

TH8

Trend of Government revenue, expenditure, resources gap and mitigation of resource gap; Fiscal Federalism; Resources Mobilization; Recent fiscal policy (Federal government)

Unit 5. Monetary Policy and Financial System Development

TH4

Status of financial development in Nepal; Role of NRB in economic development; Recent monetary policy

Unit 6. Major Issues of Nepalese economy

TH4

Relevancy of self reliance and balanced interdependent economy; Poverty, inequality and development; Foreign employment and remittances; Political economy of growth vs. distribution

Unit 7. Public Enterprises in Nepal

TH4

Status of public enterprises in Nepal; Critical assessment of privatization in Nepal

Unit 8: Globalization and International Linkages

TH4

Globalization; WTO and Nepal; FDI and technology transfer; Foreign trade with neighboring countries

References

- CBS (1913). Nepal standard Survey 2010/11. Kathmandu: Government of Nepal national planning commission secretariat central bureau of statistics (cbs.gov.np)
- CBS (1914). Population monograph of Nepal. volume 1,2 and 3. Kathmandu: Government of Nepal national planning commission secretariat central bureau of statistics (cbs.gov.np)
- CBS, (2005). Poverty trends in Nepal (1995-96 and 2003-04). Kathmandu: Government of Nepal national planning commission secretariat central bureau of statistics (cbs.gov.np)
- CBS. (2013). National sample census of agriculture Nepal 2011/12 national report. Kathmandu: Government of Nepal national planning commission secretariat central bureau of statistics (cbs.gov.np)
- Dahal M.K. (ed) (1993). Future of Nepalese economy. Kathmandu: NEFAS/FES
- Dahal M.K. (ed) (1998). Impact of globalization in Nepal. Kathmandu: NEFAS/FES
- Dahal M.K. (ed) (2004). Nepalese economy. Kathmandu: Toward building a strong economic nation-state, Central department of economics (CEDECONS) TU
- Gyanwaly, R.P.(2017)(Ed.). *Political economy of Nepal*. Kathmandu: Central department of economics & FES
- ILO-SAAT (1997). Employment in Nepal: Prospects and Problems. New Delhi: International Labour Organisation (ILO) South Asia Multidisciplinary Advisory Team (SAAT)
- MOF () Economic Survey (Various Issues). Kathmandu: Ministry of Finance
- Munda H. (ed) (1999). WTO regional cooperation and Nepal, Kathmandu: NEFAS/CASA/FES.
- NPC, (). Various plans, Kathmandu: National planning Commission (npc.gov.np)
- NRB (2002). WTO and Nepal. Kathmandu: Nepal rastra bank (nrb.gov.np)
- NRB (2005)** Nepal Rastra Bank in Fifty Years(volume 1,2 and 3). Kathmandu: Nepal Rastra Bank (nrb.gov.np)
- NRB (2011) A Report of Situation, Prospect and Challenge of Financial Service in The Development of Agricultural Sector of Nepal,(Nepali) Kathmandu: Nepal rastra bank (nrb.gov.np)
- NRB (Various years) Macroeconomic situation: Nepal Rastra Bank (nrb.gov.np)
- NRB (Various years) Nepal Rastra Bank Quarterly Bulletin for various years. Kathmandu: Nepal Rastra Bank (nrb.gov.np)
- NRB, (2002). Achieving Millennium Development Goals: Challenges for Nepal, Kathmandu: Nepal rastra bank (nrb.gov.np)
- Pandey, D.R. ((1999). Nepal's failed development: Reflection on the mission and maladies. Kathmandu: Nepal South Asia Center

Poudyal, S. R. (1988). Foreign trade aid and development in Nepal. Delhi: Commonwealth publishers

Pyakuryal, B. (ed) (2008) Is foreign aid working. Kathmandu: Mandala book point

Seddon, D (1987). Nepal: A state of poverty in Nepal: New Delhi: Vikash publishing house

Seddon, D., J. Adhikari and G. Gurung ((1999)The new lahures, foreign employment and remittance economy of Nepal. Kathmandu: Institute for development studies

Shah, R.K (2016) Fiscal federalism in Nepal. Kathmandu: EKTA books

Sharma, S. (1998). Some aspect of industrial development in Nepal. New Delhi: Annapurna Publishing Press

Shrestha, N. R. ((1998). In the name of development. A reflection on Nepal. Kathmandu: Educational enterprises

World Bank (various issues). Country strategy paper. Kathmandu: World bank

Suggestions for Supplementary Readings

Various government agencies publish the documents according to their objectives. Most of the documents are available on web sites and would be useful for update information. So it is suggested to follow the government websites.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Microeconomics II**

Course No.: ECO 521

Nature of the Course: Theory

Year: First

Semester: II

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

***Course Objectives:** This course intends to broaden student's understanding of microeconomics covering more and advanced topics like factor pricing, general equilibrium analysis, welfare economics, consumer's choices under uncertainty, market failure and game theory. After the completion of course, students will be able to apply these microeconomic tools in decision making.*

Unit I: Factor Pricing **10**

Factor pricing in perfectly competitive markets- Demand for labour, supply of labour and Determination of factor price; Factor pricing in imperfectly competitive markets- Monopolistic power in product market, Monopsonistic power in factor market, bilateral monopoly, Competitive buyer-firm versus monopoly union.

Unit II: General Equilibrium Theory **8**

Interdependence in the economy; The Walrasian system; Existence, uniqueness and stability of an equilibrium; Equilibrium in 2x2x2 model (consumption, production and simultaneous equilibrium)

Unit III: Welfare Economics **8**

Criteria of social welfare, maximization of social welfare, welfare maximization and perfect competition; Social justice and social optimum, capitalism, market failure and alternative economic systems; theory of the second best; externalities in production and consumption.

Unit IV: Market Failures **6**

Notion of market failures, Causes and consequences, asymmetric information; Adverse selection, Moral hazards, Insurance markets

Unit V: Choice under Uncertainty and over the Period **8**

Uncertainty and information, Choice under uncertainty, Expected utility, NM utility index; Inter temporal choices- Nature of utility function, Budget constraints, Inter-temporal equilibrium, Comparative statistics (8 hours)

Concept of game- Players, Strategies, Pay-off matrix; Type of games-constant sum game, zero sum game and non-zero sum game; Solution of a game, Best response strategy in non-zero sum game, Nash Equilibrium; Prisoner's dilemma

References

Ahuja, H.L. (2016). *Advanced economic theory: Microeconomic analysis*. New Delhi: S.Chand &Company Pvt. Ltd.

Ahuja, H.L. (2016). *Modern microeconomics*. New Delhi: S.Chand &Company Pvt. Ltd

Cowell, F. (2006): *Microeconomics: Principles and analysis*. New Delhi: Oxford University Press.

Gravell, H. and Rees, R. (2004): *Microeconomics*(3rd ed.). New Delhi; Pearson

Henderson, J.M. and Quandt, R. E. (2003). *Microeconomic theory: A mathematical approach*, third edition. New Delhi: Tata McGraw-Hill Publishing Company Limited.

Koutsoyiannis, A. (1975). *Modern microeconomics*. London: Palgrave MacMillan

Koutsoyiannis, A. (1979): *Modern microeconomics* (2nd ed.). London: Macmillan.

Maddala, G.S. and Ellen Miller (2004). *Microeconomics*, second reprint. New Delhi: Tata McGraw-Hill Publishing Company Limited.

Mas-Colell, A., Whinston, M.D. and Green J. (1995): *Microeconomic theory*. New Delhi: Oxford University Press

Salvatore, D. (2009). *Principle of microeconomics* (5th ed.). New Delhi: Oxford University Press.

Varian, H.R. (2010). *Intermediate microeconomics: A modern approach* (8th ed.). London: W. W. Norton & Company.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Macroeconomics II**

Course No.: ECO 522

Nature of the Course: Theory

Year: First

Semester: II

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objective

The objective of this course is to familiarize students with the advanced knowledge of macroeconomic analysis. Upon the completion of this course, students will be able to understand analytical tools of macroeconomics and apply them in analyzing economic models, theories and policies.

Unit I: Consumption Demand **6**

Concept of short-run and long-run consumption function; Absolute income hypothesis, Relative income hypothesis, Permanent income hypothesis and Lifecycle hypotheses

Unit II Investment Demand **6**

Basic Concepts; Factors affecting the investment demand; Criteria of investment decision- Present value, Internal rate of return and Payback period ; MEC and MEI schedules; Accelerator theory

Unit III: Growth Theories **9**

Basic Concepts, Harrod Model, Domar Model, Solow Model, and Overview of New Growth Theory

Unit IV: Business Cycles Theories **6**

Kaldor Model, Schumpeter Model, Samuelson Model and Hicks Model

Unit V: Macroeconomic Stabilization **6**

Concepts, Economic Disturbances, Role of monetary and fiscal policy for macroeconomic stabilization, Lags effects of monetary and fiscal policies, Activist policy, Rules vs. Discretions,

Unit VI: Market Failure **4**

Meaning of market failure, Implications of market failure in macroeconomic policies; Government intervention

Unit VII: Macro Distribution Theories**5**

Ricardo, Kalecki and Kaldor models; Policy implications

Unit VIII. Open Economy Aspects**6**

Market for foreign exchange, Devaluation and depreciation, Real and nominal exchange rate, Factors affecting the exchange rate, Introduction to Mundel- Fleming model

REFERENCES

- Barro, R.J. & Martin, X.J.(2004). *Economic growth*. Massachusetts: MIT Press.
- Branson, W.H. (1983). *Macroeconomic theories and policy*, (2nd ed.). New Delhi: All India Book Seller.
- Dornbush,R. & Fischer S. (1987). *Macroeconomics*, (4th ed.). New York: McGraw Hill Book Company.
- Froyen, R. T.(2003). *Macroeconomics: Theories and policies*, (7th ed.). New Delhi: Pearson Education.
- Gordon, R.J.(1990). What is new Keynesian economics?. *Journal of Economic Literature*, XXVII, 1115-1171.
- Hicks, J.R.(1950). *A contribution to the theory of trade cycle*. London: Oxford.
- Kaldor, N.A. (1940). Model of trade cycle. *The Economic Journal*, 50(197),78-92.
- Kaldor, N.A. (1957). A Model of economic growth. *The Economic Journal*, 67(268) ,591-624.
- Levacic, R. (1978). *Macroeconomics*. London: Macmillan.
- Mnkiw, N.G.(2002).*Macroeconomics* (2nd ed.). New York: Worth Publication
- Ott,D.J., Ott, F.A., & Yoo, J.G. (1975). *Macroeconomic theory*. Tokyo: Kogakusa, McGraw Hill.
- Sen, A.K.(ed.)(1960). *Growth economics*. Harmondsworth : Penguin Books.
- Shapiro, E.(Various editions).*Macroeconomic analysis*. New Delhi: Galgotia Publication, Pvt. Ltd.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Statistical Methods**

Course No.: ECO 523

Nature of the Course: Theory

Year: First

Semester: II

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

This course intends to equip the students with statistical tools used in economics and economic analysis. After completion of the course student will be able to apply the tools in economic research.

Unit I: Probability and Distributions functions

10

Introduction of Probability; Conditional Probability and Baye's Theorem; Random Variable and Mathematical Expectation (Discrete and Continuous); Probability Distribution and Density Functions; Distribution Functions: Normal, Binomial and Poisson

Unit II: Sampling Methods and Distributions

10

Concept of Sampling; population Vs. sampling; Probability and Non-probability Sampling, sampling Techniques and Design; Sampling and Non-sampling errors; sampling Distributions of Means and Proportions, Standard errors; Determination of Sample Size

Unit III: Theory of Estimation

8

Concept of Parameter and Statistic; Point and Interval Estimation; Properties of good estimators; Estimation Method: Ordinary Least Squares (OLS) Method and Maximum Likelihood (ML) Method.

Unit IV: Hypothesis Testing

10

Formulation of Statistical Hypotheses (Null and Alternative); Types of Errors (Type I and Type II); Confidence Interval and Level of Significance; Hypothesis Testing (z, t, F and Chi-square tests)

Unit V: Correlation and Regression

10

Correlation Coefficients (Simple, Partial and Multiple Correlations); Simple and Multiple Regressions using least squares method; Interpretation of Regression Coefficients; Standard Error of Estimate; Test of significances of the regression Coefficients; Coefficient of determination. F-test and Analysis of Variance (ANOVA).

REFERENCES

- Baltagi, B. H. (2008). *Econometrics*. Fourth Edition, New York: Springer-Verlag Berlin Heidelberg Chau,
- Ya-lun (1969). *Statistical Analysis*, New York: Holt, Rinehart and Winston, Inc.
- Cochran William G. (1977). *Sampling techniques*, Third Edition, New York, John Wiley and Sons
- Croxton, F.E.,D.J. Cowden and S. Klein (1975). *Applied General Statistics*, Third Edition, New Delhi: Prentice-Hall of India P. Ltd.
- Hogg, R. and A. Craig (1970). *Introduction to Mathematical Statistics*, Third Edition, New York: McMillian.
- Levin, Richard I. and David S. Rubin (1999). *Statistics for Management*, Seventh Edition, New Delhi: Prentice-Hall of India, Private Limited.
- Miller I. and M. Miller (2004). *John E. Freund's Mathematical Statistics with Applications*, Seventh Edition, New York, Pearson Prentice Hall.
- SpeigelMurry R. J. , Schiller and A. Srinivasan (2010). *Probability and Statistics*, New York McGraw-Hill, Schaum's Outline Series.New Delhi, Special Indian Edition, , India.
- SpeigelMurry R. (2000). *Statistics*, Third Edition, New York, McGraw-Hill, Schaum's Outline Series.
- Thomas, R.L. (2005). *Using Statistics in Economics*, UK (2005), Tata McGraw Hill Education (2011), Pvt. L New Delhi.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **International Trade and Development**

Course No.: ECO 524

Nature of the Course: Theory

Year: First

Semester: II

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

The objective of the course is to familiarize students with concepts and theories of international trade and its linkage with development. After the completion of this course also enable students to understand linkage between trade and development, institutions involved in facilitating international trade; and emergence and issues of globalization.

Course Content

Unit I: Concept and Theories of International Trade

10

Concept of Trade: Export and Import; Concept of Balance of Payment, Causes of disequilibrium, Ways to correct BOP disequilibrium; Theories of International Trade- Mercantilism, Absolute and Comparative Advantage, Factor-Endowment (Heckscher-Ohlin Theory) and Leontief Paradox, Gains from Trade and Terms of Trade; Use of Tariffs (Custom & domestic duties); Quotas and other specific measures and its implication to International Trade; Non Tariffs Barriers and Measures

Unit II: International Trade and Development

15

Trade and Economic Growth; Export led economic growth hypothesis; Import substitution, Linkage between Trade and poverty reduction, International trade and technology transfer; Mobility of capital; Role of trade in reducing poverty, Experiences of poverty reduction in China & India, International trade and implication to Agriculture sector, Small and Medium industries, Trade in Services, Migration and Remittances, Trade and Environment; Trade and Infrastructure, Aid for Trade

Unit III: Foreign Direct Investment and Multinational Firms

8

Concept of FDI, Need for FDI- Saving-Investment Gap; Export-Import Gap, Technology Transfer; Form and mode of FDI; Emergence of Multinational companies and their implication to domestic Industries; Private Sector Development and FDI; Foreign Portfolio Investment

Unit IV: Institution involved in international Trade and Development

10

Bretonwoods system, GATT and WTO; Brief History, Rational, objectives and function of European Union (EU), North American Free Trade Agreement (NAFTA), South Asian Free Trade Agreement (SAFTA); Structure, functioning, role of SAARC, BIMSTEC, ASEAN and BRICS in promoting trade

Unit V: Globalization and International Trade & Development**5 hrs**

Concept of Globalization, Emergence of Globalization, Case against Globalization and protectionism; Regionalization and Bi-lateral trade, Special preferences for LDC, Global Financial Crisis of 2008 and implication to international trade; Brexit and its implication to international trade

References

- Fieldhouse, D. (1999). *The West and the Third World: trade, colonialism, dependence and development*. Place: Wiley-Blackwell.
- Gillis, M., Perkins, D. H., Roemer, M., & Snodgrass, D. R. (1992). *Economics of development* (3rd ed.). USA: WW Norton & Company, Inc.
- Meier, G. M. (1964). *International trade and development*. Place: Publisher
- Meier, G.M. & Rauch, J.E. (2000). *Leading issues in economic development*. (8th ed.) New York: OUP
- Salvatore, D. (2012). *International economics*. Place: John Wiley and Sons.
- Santos, Paulino, A., & Thirlwall, A. P. (2004). The impact of trade liberalisation on exports, imports and the balance of payments of developing countries. *The Economic Journal*, 114(493).
- Thirlwall, A. P. (1989). *Growth and development: With special reference to developing economies*. UK: Palgrave Macmillan
- Todaro, M. P. (1977). *Economics for a developing world: An introduction to principles, problems and policies for development*. Place: Longman.
- Todaro, M.P. and Smith, S.C. (2013). *Economic Development*. (10th ed.) New Delhi: Pearson Education.
- Viner, J. (1953). *International trade and economic development*. New York. Publisher

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **History of Economic Thought**

Course No.: ECO 525

Nature of the Course: Theory

Year: First

Semester: II

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

This course intends to provide basic knowledge of economic thought. After the completion of this course students will be able to analyze ideas and thoughts of different school of thoughts.

Unit I Brief Introduction to Oriental and Occidental Economic Thought 7

Economic thought of Buddhism: Main ideas, critical evaluation; Hinduism: Main ideas, critical evaluation; Greek and Roman: Main ideas, critical evaluation

Unit II. Pre- classical Economic Ideas 7

Mercantilism: Economic ideas of Petty, Cantillon, Locke and Hume; Physiocracy: Natural order, primacy of agriculture, Social classes and circulation of wealth

Unit III. Classical Economic Ideas 14

Adam Smith: Division of labour, Theory of value and distribution, Economic growth and international trade; **David Ricardo:** Theory of value and distribution, Foreign trade, Economic development and theory of rent; **T.R. Malthus:** Theory of population, Theory of gluts; **J.S. Mill:** Laissez faire and protection; **J.B. Say:** Law of markets; Critical evaluation of classical ideas

Unit IV. Socialistic Economic Thought 12

Utopian socialism: Contribution of Saint Saimon, Sismondi, Robert Owen, Charls Fourier, Louis Blanc, Pierre Joseph Proudhon; Karl Marx: Main philosophy, theory of surplus value, Theory of development, The profit, Business cycle; Critical evaluation of Marxist economic idea.

Unit V. The Marginalists and Austrian School 8

Marginalism: Gossen, Jevons, Menger and Walras; The Austrian School: Wiser and Bohm-Bawerk: Theory of capital and distribution;

References

Bhatia, H. L. (1978). *History of economic thought*. New Delhi, Vikas Publishing House Pvt. Ltd.

Gide, C and Rist, C. (1978). *A history of economic thought*: Calcutta: Oxford University Press.

Haney, L. H. (1997). *History of economic thought*. New Delhi: Surjeet Publication.

Paul, R. R. (2011). *History of economic thought*. New Delhi: Kalyani Publishers.

Roll, E. (1988) *History of economic thought*. Calcutta: Oxford University Press.

Shumpeter, J. A. (1954), *History of economic analysis*. New York: Oxford University Press.

Vaish, M. C. (1998). *History of economic thought*. New Delhi, S. Chand and Company

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Public Economics**

Course No.: ECO 531

Nature of the Course: Theory

Year: Second

Semester: III

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

This course intends to acquaint the students with the basic knowledge of public economics, public good, public choice theory, public policy, public expenditure and public enterprises. After the completion of the course students will be able to evaluate public policy and take systematic policy decision for the growth and development.

Unit 1. Introduction

8

Role of Government in economy: Government as a tool for operationalising the planning process; Changing perspective: Government in a capitalist, socialist and mixed economy; Public and private sector: Cooperation and competition, private goods, public goods, and merit goods;

Unit 2. Market Failure

8

Market failure and government intervention: Supply of public goods and services; Issues related to market failure and the government intervention; Market failure and the theory of the second best; The role of state in allocation, distribution, regulation and stabilization; The changing role of the state in a globalizing world with special emphasis on global public goods; Public Sector Pricing; Pricing of Public Utilities.

Unit 3. Public Goods Social Choice Theory

12

Theory of private and public goods: Rivalry and exclusion, allocation of public and private goods, efficiency in public goods provision, market and Public goods; The principle of Maximum social advantage; Welfare economics: Pigovian and Paretian welfare analysis; Theory of second best: Social welfare function of Bergson; Social choice theory: Individual and social choice, differences and democratic choice of society, Kenneth J Arrows analysis of social choice; Normative and positive approaches (Musgravian and Buchanan models) to public choice: Group interest and group alliance; Public choice approach to bureaucracy;

Unit 4. Rationale for Public Policy

8

Allocation of resources: provision of public goods; voluntary exchange models; impossibility of decentralized provision of public goods (contributions of Samuelson and Musgrave); Demand-revealing schemes for Public goods; Theory of club goods; Uncertainty and expectations; Removing distributional inequalities and regional imbalances;

Unit 5. Public Expenditure

8

Wagner's law of increasing state activities; Wiseman-Peacock hypothesis; Pure theory of public expenditure; Structure and growth of public expenditure; Criteria for public investment; Social cost-benefit analysis-Project evaluation, Estimation of costs, discount rate; Reforms in expenditure budgeting; Programme budgeting and zero base budgeting.

Unit 6. Public Enterprises

4

Public enterprises: Role of public enterprises in underdeveloped countries; Pricing principles of public enterprises; Public enterprises in liberalization era; Public enterprises and privatization

Books for Reference

- Atkinson, A. & Stiglitz, J. (1980). *Lectures in public economic*. London: McGraw Hill,
- Auerbach, A. J. and Feldstern M. (Eds) (1985). *Handbooks of public economics, Vol.1*. Amsterdam: North Holland.
- Baumol, W. J. (Ed) (2001). *Welfare economics*. U. K.: Edward Elgar Publishing Ltd.
- Boadway, R. (1984). *Public sector Economics*. London: 2nd Sub edition, Scott Foresman & Co.
- Cornes, R. & Sandler, T. (1986). *The theory of externalities, public goods and club goods*. Cambridge: University Press, Cambridge
- Goode, R. (1986). *Government finance in developing countries*. New Delhi: Tata McGraw Hill,
- Helpman, E., Razin, A. & Sadka, E. (Ed) (1988). *Economic effects of the government budget*. Mass: MIT Press, Cambridge,
- Houghton, J. M. (1970). *The public finance*. Harmondsworth: Selected Readings, Penguin.
- Jha, R. (1998). *Modern public economics*. London: Routledge.
- Johansen, L. (1965). *Public economics*. Amsterdam: North-Holland Publishing Company.
- Laffont, J. J. (1994). *Fundamentals of public economics*. Mass: MIT Press Cambridge.
- Mundle, S. (1999). *Public finance policy issues for India*. New Delhi: Oxford University Press.
- Musgrave, R. A. (1959). *The theory of public finance*. Tokyo: McGraw Hill, Kogakhusa.
- Nicholas, B. (Ed.) (2001). *Economic theory and the welfare state*. UK: Edward Elgar.
- Singh, S.K. (1986). *Public finance in developed and developing countries*. New Delhi: S. Chand.
- Wlbrich, H. (2003). *Public finance in theory and practice*. USA: Thomson Southwestern, Ohio

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Monetary Economics**

Course No.: ECO 532

Nature of the Course: Theory

Year: Second

Semester: III

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objective: *The objective of this course is to familiarize the students on issues of monetary theories and role of monetary policy. After completion of this course, students will be able to analyze monetary theories, money demand, money supply, inflation, balance of payment and they will be able to take systematic policy decisions for growth and development.*

Unit - I: Introduction

5

Meaning, Types, Role and functions, Payment systems, Instruments and importance of E-payment system

Unit-II: Development of Monetary Theories

10

Classical and neo-classical theories, Keynesian approach, Real balance effect, Monetarist approach, and Rational expectation.

Unit-III: Theories of Money Demand and Money Supply

10

- a) **Money Demand:** Meaning, determinants of money demand, Money demand theories: Classical, Neo-classical, Keynesian, Baumol, Tobin, Friedman, and McKinnon.
- b) **Money Supply:** Meaning, determinants of money supply with the help of money multiplier, Major sources of High-powered money.

Unit-IV: Theories of Inflation

10

Concept, Classification and measurement of inflation, Theories: Classical, Neo-classical, Inflationary Gap, Phillips curve, Lipsey's version, Samulson – Solow modification, Friedman's approach, New classical approach to Phillips curve, Effects and Controlling measures,

Unit-V: Monetary Policy

6

Meaning and goals, Targets and indicators, Instruments, Monetary policy framework in Nepal.

Unit-VI: Balance of Payment (BoP)

7

Basic concept and accounts, Causes and correcting measures of BoP disequilibrium, Approaches to BoP: Elasticity, Absorption and Monetary Approach.

References

Ahuja, H. L. (1986). *Macroeconomics: Theory and policy*, New Delhi, S. Chand and Company Ltd, India.

- Branson, W. H. (1983). *Macroeconomic theories and policy* (2nd ed.), New Delhi, All India Seller, India.
- Clower, R. W. (1973). *Monetary theory* (ed) England, Penguin.
- Gupta, G. S. (2008). *Macroeconomic theories and application* (3rd ed), Delhi, Tata McGeaw-hill Publishing Company Ltd., India.
- Gupta, R. D. (1989). *Keynes, post-keynesian economics*, New Delhi, Kalyani Publication, India.
- Gupta, S. B. (1992). *Monetary economics: institutions, theory and policy*, New Delhi, S. Chand and Company. India.
- Gyanwaly, R. P. (2014). *A survey on theories of inflation: Classical to new political macroeconomics*, Kathmandu, Sunlight publication.
- Handa, J. (2000). *Monetary economics*, London and New York, Routledge, Taylor and Francis Group.
- Heller, H. R. (1977). *International monetary economics*, New delhi, Prentice Hall, India.
- Jhingan, M. L. (1989). *Macro- economic theory* (5th ed.), Delhi, Konark Publishers Pvt. Ltd., India.
- Jhigan, M. L. (1989). *Monetary Theory* (2nd ed.), Delhi, Konark Publishers Pvt. Ltd., India.
- Khatiwada, Y. R. (1994). *Some aspects of monetary policy in Nepal*, New Delhi, South Asian Publication, India.
- Vaish, M. C. (1990). *Macro economic theory* (9th ed.), New Delhi, Wiley Eastern Limited, India.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Research Methods**

Course No.: ECO 533

Nature of the Course: Theory

Year: Second

Semester: III

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives *This course will familiarize students with need and scope of research in economics. It will also equip students with different type of research design and their application in social & behavioral science, learning about data collection method, techniques, tools and data analysis. After the completion of course, students will be able to write an academic research proposal and produce thesis.*

Unit I: Introduction

4

Introduction- Meaning & objectives of research in Economics, Types of research- Pure and applied, Quantitative and qualitative; Scope of and need for research in economics; Research process and different stages and steps of research

Unit II: Review of Literature

4

Perceiving a research problem, Meaning and importance of review at different stages of research, Identifying relevant literature and their sources, writing review of literature

Unit III: Research Design and Types

8

Meaning of Research design, Function of research design; Difference between qualitative and quantitative research design; Types of social research designs- historical, experimental, exploratory, explanatory, descriptive, ex post facto, action, survey, field study, case study, time-series versus cross-sectional, Hypothesis setting.

Unit IV: Method of Data Collection

10

Sources of information- primary vs. secondary; Census and sample; Techniques of sampling- probability vs. non-probability, Method of primary data collection, Tool of data collection- Questionnaire, Qualitative method of data collection- Focused Group Discussion (FGD), Participatory rural appraisal (PRA), Key Informant Interviews (KII), In Depth Interviews, Tool of qualitative data collection

Unit V: Data Processing and Analysis

10

Data processing- data entry, editing, coding, and organization of data; Measurement scale of variables (nominal, ordinal, interval, and ratio), Data Analysis: uni-variate, bi-variate and

multi-variate, descriptive and inferential data analysis; Use of statistics and statistical tests in economic research

Unit VI: Writing Research Proposal

4

Selection of topic; problem Identification, Objectives and Hypothesis of Research; Format and Components of research proposal, Writing a research proposal

Unit VII: Preparation of Research Report and Thesis

6

Need of a research report; Procedure for preparing research report; Format of the report and thesis; Citation and referencing styles (including footnotes, quotations, references); Subject matter and organization of the report; Presentation of research report.

References

- Babbie, E. (2004): *The practice of social research* (10th ed.). Belmont, CA: Wadsworth.
- Dasgupta, M. (Ed.). (2007). *Research methodology in economics*. New Delhi: Deep & Deep Publications.
- Kanel, N. R., (2016). *A handbook of thesis and dissertation formatting(2nd ed.)*. Kathmandu: Budha Publications.
- Kerlinger, F. N., (1986). *Foundation of behavior research*. Chicago, ILL: Holt, Rinehart and Winston.
- Kothari, C. R., (2004). *Research methodology: Methods and techniques*. New Delhi: New Age International.
- Kumar R., (2009). *Research Methodology: A step by step guidelines for beginners(3rd..* New Delhi: Sage Publication
- Silverman, D. (Ed.) (2011). *Qualitative research* (3rd ed.). New Delhi: SAGE Publications.
- Singh, K.(2010). *Quantitative social research methods*. New Delhi: SAGE Publications.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Econometrics**

Course No.: ECO 534

Nature of the Course: Theory

Year: Second

Semester: III

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives:

The objective of this course is to familiarize the students with econometric methods and models. After completion of the course students will be able to apply econometrics in economic research.

Unit I: Basic Concept **6**

Meaning of Econometrics; Estimators; Finite and infinite sample properties of estimators; Methods of estimation; Introduction to OLS, Maximum Likelihood (ML) and Methods of moments.

Unit II Simple Regression Model **8**

Specification of Simple Regression Model, Estimation by OLS and ML methods, Statistical Inference of the Model, Properties of OLS and ML estimators, Interpreting the Results of Regression Analysis and Testing the Hypothesis using t and F test .

Unit II Multiple Regression Model **6**

Specification of the Model, Estimation by OLS method (Matrix Approach), Variance -Covariance Matrix, Correlation Matrix, Partial Correlation Coefficients and Regression coefficients, Interpreting the results of Regression Analysis and Testing the Hypothesis using t and F test .

Unit III: Violation of OLS Assumptions **10**

Heteroskedasticity: Nature, Consequences, Detection and Remedies,
Autocorrelation: Nature, Consequences, Detection and Remedies
Multicollinearity: Nature, Consequences, Detection and Remedies

Unit V: Regression on Dummy Variables **8**

Use of Dummy Variables as Regressor, Dummy Variable Trap
Dummy Dependent Variables Models: Linear Probability Model, Logit Model and Probit Model

Unit VI: Time Series Analysis **5**

Stationary and Non-stationary time series and their Implication for Regression Analysis
Unit Root Test: Dickey Fuller and Phillip Perron Test.

Unit VII: Forecasting **5**

Meaning and applications, Ex-ante and Ex-post Forecast, Conditional and Unconditional Forecasting

References

- Baltagi, Badi H. (2008). *Econometrics* (4th ed.). New York: Springer.
- Enders, W. (2004). *Applied econometric time series*. Singapore : John Wiley & Sons Pvt.Ltd
- Greene, W. H. (2003). *Econometric analysis (5th ed.)*. Singapore: Pearson Education.
- Gujarati, D. N. (1992). *Essentials of econometrics.v* New York: McGraw-Hill International Editions, Economic Series.
- Gujarati, D.N. and Sangeetha . (2007). *Basic econometrics (4th ed.)*. New York: McGraw Hill, Fourth Edition
- Gujarati, Damodar N. (2003). *Basic econometrics(4th ed.)* New York: McGraw-Hill, Inc.
- Johnston, Jack and John DiNardo (1997). *Econometric methods(4th ed.)*. New York: The McGraw-Hill Companies, Inc.
- Judge, G.G., Hill, C.R., Griffiths, W.E, Lütkepohl, H.& Lee ,T. C.(1988). *Introduction to the theory and practice of econometrics(2nd. ed.)*. New York: John Wiley & Sons.
- Koutsoyiannis, A. (1977). *Theory of econometrics* (2nd ed.). London: The Macmillan Press Ltd.
- Maddala, G.S. (2002). *Introduction to econometrics(2nd ed.)*. Singapore: John Wiley & Sons.
- Pindyck, R. S. & Rubinfeld, D.L. (1998). *Econometric models and economic forecasts(4th ed.)*, Fourth Edition. New York: McGraw-Hill, Inc.
- Ramanathan, Ramu (1995). *Introductory econometrics with applications(3rd ed.)*. Fort Worth, Texas: The Dryden Press, Harcourt Brace College Publishers.
- Wonnacott, R. J. & Wonnacott, T.H. (1979). *Econometrics(2nd.ed.)*. New York: John Wiley & Sons, Inc.
- Wooldridge J.M., (2013). *Introductory econometrics: A modern approach (5th ed.)*. Mason, OH,USA: South Western Cengage Learning.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Agriculture Economics**

Course No.: ECO 535

Nature of the Course: Theory

Year: Second

Semester: III

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objective: *This course deals with basic principles of agricultural economics including production economics, principles of supply and demand, world food situation, marketing and trade of agricultural products and farm inputs, agricultural finance and agricultural public policy to find out market solutions for agricultural problems. Students will develop analytical skills to evaluate agricultural production and agriculture policies in terms of their economic impacts and sustainable development.*

Unit – I: Introduction to Agriculture Economics **5**

Definition of agriculture; Role of agriculture in economic development; Structure of agriculture sector; Interrelationship between agriculture and industry; Agricultural development and poverty; Inputs used and Products of agriculture; Agricultural economics.

Unit-II: Agriculture Production Economics with One Variable Input **5**

Production functions: Concept, Stages and Analysis; Profit maximization; Production with two Inputs; Maximization in the two-inputs case; Maximization subject to budget constraints

Unit-III: Agriculture Production Economics with Two Variable Inputs **5**

Production; Profit maximization; Maximization subject to budget constraints

Unit-IV: Agriculture Production Functions **5**

Cobb-Douglas production function; Spillman production function; Transcendental production function

Unit-V: Agriculture Marketing **5**

Definition and functions; Special characteristics of agricultural products; Functional and institutional approaches to agricultural marketing; Price analysis of agricultural products; Costs of marketing food and agricultural products; Agricultural value chain

Unit-VI: Agricultural Financing **4**

Sources of financing; Utilization of loan; Government regulations on agriculture financing; Risks and uncertainties in agriculture; Agricultural insurance; Banking and financial institutions act (BAFIA 2073); Role of credit in agricultural commercialization.

Unit-VII: Agriculture Policies **5**

National agriculture policy; Agribusiness promotion policy; Agriculture perspective plan; Agriculture development strategy; agriculture in periodic plans

Unit-8: Land Reforms**5**

Types of farm organization; Principle of land utilization; Tenancy and crop sharing; Green revolution; Land reforms measures; Performance traditional and modern agriculture; Problems and opportunity of small and marginal farmers

Unit-IX: Global Issues**5**

Population growth; World food production trends; Labour migration as a form of service trade; UN classification of countries; Trade in agricultural products; Agreement on agriculture of World Trade Organization

Unit-X: Term paper and its presentation by students**4****Basic References**

Colman, D. and Young, T. (1989). *Principles of agricultural economics: Markets and prices in less developed countries*. Cambridge: Cambridge University Press¹.

Cramer, G. L., Jensen, C. W. and Douglas, D. S. (2011). *Agricultural economics and agribusiness* (8th ed.), Indianapolis: John Wiley and Sons.

Debertin, D. L. (2012). *Agricultural production economics* (3^{ed} ed.). Charleston, USA: CreateSpace².

Drummond, H. E. and Goodwin, J. W. (2011). *Agricultural economics* (3rd ed), New Jersey: Prentice-Hall.

Penson, J. B., Capps Jr. O, Rosson III, C. P. and Woodward, R. T. (2017). *Introduction to agricultural economics* (7th ed.). Essex: Pearson.

Supplementary readings

Cramer, G. L., Jensen, C. W., Southgate Jr. D. D. (2001) *Agricultural Economics and Agribusiness*, (8th ed.) USA: Wiley.

Debertin, D. L. (2012). *Applied microeconomics: Consumption, production and markets*, Charleston, USA: Createspace³.

Gittinger, J. P. (1982). *Economic analysis of agricultural projects*, Economic Development Institute, Washington: World Bank.

Goodwin, J. W. (1994). *Agricultural price analysis and forecasting*, New York: Wiley

Johl, S. S. and Kapur, T. R. (2015). *Fundamentals of arm business management*, 2nd Edition, India: Kalyani Publisher.

Martinho, V.J.P.D (ed.) (2015). *The agricultural economics of the 21st Century*⁴. Switzerland, Springer.

Paul, S. and Nordhaus, W. (2009). *Economics* (19th ed.), Columbus: McGraw-Hill/Irwin.

Salvatore, D. and Diulio, E. (2003). *Schaum's Easy Outline of Principles of Economics* (1st ed), Columbus: McGraw-Hill.

Seitz, W. D., Nelson, G. C. and Halcrow, S. G. (2009). *Economics of resources, agriculture and food*, (2nd ed.), Illinois: Waveland Pr Inc.

¹ Available at googlebook

² Available at https://uknowledge.uky.edu/agecon_textbooks/

³ Available at https://uknowledge.uky.edu/agecon_textbooks/

⁴ Available at googlebook.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Economic Demography**

Course No.: ECO 536

Nature of the Course: Theory

Year: Second

Semester: III

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

The main objective of this course is to make the students aware of the importance of population in economic development, to acquaint the students on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques.

Unit I. Introduction to Demography

4

Demography: Introduction, scope, Components of population changes; Sources of population data: Censuses, Vital registration and Surveys

Unit II. Demographic Measurements

14 (a).

Population growth: Concept and causes, Natural increase and balancing equation, Arithmetic growth, Geometric growth, Exponential growth, Doubling time; (b). Nuptiality: Concept, Crude and general rates, Specific rates, Mean/median age of marriage, Singulate mean age at marriage; (c). Fertility and reproduction: Concept and determinants, Crude rates, Specific rates, Standardized rates; Cohort fertility, Total fertility rate, Gross reproduction rate, Net reproduction rate, Real cohort, Children ever born (CEB), Mean age of child bearing, Mean length of generation, Bongaart's fertility model; (d) Mortality: Crude death rates, Specific rates (age, sex, cause, case fatality, Standardized rates, Maternal mortality rate/ratio; Childhood mortality - Infant mortality (conventional and adjusted), Child mortality, Under-five mortality

Unit III: Theories of population

10

Malthusian theory of population; Neo-Malthusian theory of population; Optimum theory of population; The marxist theory; Theory of demographic transition; Reformulation of demographic transition theory, Threshold hypothesis; Theory of relative income

Unit IV. Population, Resources and Development

10

Relationship of Population, resources and development; Theories of resource constraints on economic growth, The Ricardo model; Carrying Capacity: Land, forest and water

Unit V. Migration, Urbanisation and Development

10

Migration: Introduction, factors affecting migration, Theories of migration, Migration and economic development; Urbanisation: Introduction, determinants and theories of urbanisation, urbanisation and economic development;.

References

- Nigel, C. (1997). *Principles of population and development*. Oxford University Press.
- Partha, D. (2000). *Population and resources: An exploration of reproductive and environmental externalities*. *Population and Development Review*, Vol. 26, No. 4 (Dec., 2000), pp. 643-689.
- Ray, D. (1999). *Population growth and economic development*. Development Economics. Oxford India Paperbacks.
- Ester, B. (1976). *Environment, population, and technology in primitive societies*. *Population and Development Review*, Vol. 2, No. 1 (Mar., 1976), pp. 21-36.
- Robert, W. F. (2004). *Health, nutrition, and economic growth*. *Economic Development and Cultural Change*. Vol. 52, No. 3 (April), pp. 643-658. 25
- Robert, W. F. (1994). *Economic growth, population theory, and physiology: The Bearing of Long-Term Process on the Making of Economic Policy*. National Bureau of Economic Research (NBER), Working Paper No. 4638.
- Kingsley, D. (1990). *Population and resources: fact and interpretation*. *Population and Development Review*, Vol. 16, Supplement: Resources, Environment, and Population: Present Knowledge, Future Options, pp. 1-21.
- Nathan, K. (1990). *Toward a theory of population-development interaction*. *Population and Development Review*, Vol. 16 Supplement: Resources, Environment, and Population: Present Knowledge, Future Options (1990), pp. 295-314.
- Ester Boserup (1996). *Development theory: an analytical framework and selected application*. *Population and Development Review*, Vol. 22, No. 3 (Sep., 1996), pp. 505-515.
- Joseph J. S. (1976). *Adam Smith on population growth and economic development*. *Population and Development Review*. Vol. 2, No. 2, pp. 167-180.
- Sydney, H. C. (1957). *The demand for labour* (Chapter VIII). *Population Theories and the Economic Interaction*. London: Routledge and Kegan Paul LTD.
- Garey, S. Becker. (1962). *Investment in human capital: A theoretical Analysis*. *The Journal of Political Economy*, Vol. 70, Issue 5, Part 2, pp. 9-49.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Government Finance**

Course No.: ECO 541

Nature of the Course: Theory

Year: Second

Semester: **IV**

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives

This course intends to make familiar about the government role in the economy, to provide knowledge of government finance and its theories.

Unit 1: Evolution of Government Role in the Economy **6**

Role of government: Pre-classical period, Classical and neoclassical Period, Keynesian and post Keynesian, market economy, Globalization and liberalization, Post-liberalisation: Global financial crisis 2007 and great depression 2008/09

Unit 2: Government Expenditure and Revenue **8**

Theories of Government Expenditure: Pareto Optimality and Samuelson's Pure theory of public expenditure, Political electoral theory, Interest group or dominant class coalition theory

Unit 3. Government Revenue **10**

Government Revenue: Tax revenue and its types; Principles of taxation (ability to pay and benefit Principle); Burden of tax (Marshall Joseph-Hicks); Responsiveness and Productivity of tax yield; Elasticity and Buoyancy of Taxation; Tax Estimation, tax reform and Tax design; Non- tax revenue

Unit 4: Public debt **6**

Public debt: Types and role in the economy; Public debt management: Principles and Techniques; Public debt and economic stabilisation; Debt policy and economy; The debt trap

Unit 5: Fiscal policy **6**

Evolution of fiscal policy; Objectives, nature and techniques of fiscal policy; Types of Fiscal policy: Anti inflationary and Counter-cyclical; Instruments and effectiveness of fiscal policy in underdeveloped countries

Unit 6: Budget and budget formulation **6**

Budget: Budget formulation process; Reform in budgeting: Programme budgeting, Performance budgeting, Zero based budgeting, Planning-programming-budgeting system,

Unit 7: Fiscal federalism **6**

Review of fiscal decentralization; Fiscal Federalism: Concept, Evolution, Types, Theories; Fiscal federalism: International experiences (India and USA); Inter-governmental fiscal transfer, Fiscal federalism in Nepal

References

- Cullis, J. And Jones, P. (1998). *Public finance and public choice* (2nd Edition). Oxford University Press, Oxford.
- Goode, R. (1986). *Government finance in developing countries*. New Delhi: Tata McGraw Hill,
- Helpman, E., Razin, A. & Sadka, E. (Ed) (1988). *Economic effects of the government budget*. Mass: MIT Press, Cambridge.
- Houghton, J. M. (1970). *The public finance*. Harmondsworth: Selected Readings, Penguin.
- Laffont, J. J. (1994). *Fundamentals of public economics*. Mass: MIT Press Cambridge.
- Musgrave, R. A. (1959). *The theory of public finance*. Tokyo: McGraw Hill, Kogakhusa.
- Nicholas, B. (Ed.) (2001). *Economic theory and the welfare state*. UK: Edward Elgar.
- Singh S.K. (1986). *Public finance in developed and developing countries*. New Delhi: S. Chand.
- Thagi, B.P. (2002). *Public finance*. India: Jayaprakash and company Meerut.
- Thompson, F. And Green, M. T. (1998). *Handbook of public finance*. New York: Marcel Dekker
- Wlbrich, H. (2003). *Public finance in theory and practice*. USA: Thomson Southwestern, Ohio.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Banking and Financial Institutions**

Course No.: ECO 542

Nature of the Course: Theory

Year: Second

Semester: IV

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objective: The objective of the course is to acquaint the students with banking and financial institutions; financial- instruments and market; financial sector reforms; financial stability; and international monetary institutions. After the completion of the course students will be able to understand the working of financial system and take systematic policy decisions for financial system stability, economic growth and development.

Unit - 1: Introduction to Banks and Financial Institutions 9

Meaning and classification of financial institutions

Central bank: Functions and role for economic development

Commercial bank: functions

Development banks: functions

Finance companies: functions

Microfinance financial institutions: functions

Non-bank financial institutions (Insurance companies, Provident fund, Nutual fund): functions

Cooperatives: functions

Unit – II: Financial Instruments and Financial Market: 8

a) Financial Instruments (Assets): Meaning and Types (Deposits, Treasury bill and Bond, Debentures, Commercial Paper, Mutual Fund Paper, Derivative Instruments. and Stock.

b) Financial Market: Meaning and Classification (Unorganized and Organized, Money and Capital, Primary and Secondary, Spot and Derivative, Treasury Bill and Bond Market, Commercial Paper Market, Call money market, Foreign Exchange Market, and Stock Market)

Unit-III: Credit and Financial System 4

Meaning of credit, Classification and sources;

Credit creation and credit control mechanism

Role of financial system in economic growth and developmen.

Unit - IV: Stock Market 6

Meaning and classification

Major indicators of stock market development, Stock exchange indices,

Causality between stock market development and economic growth,

Stock market in Nepal.

Unit - V: Risk of Financial Institutions and their Management 7

Meaning and types of risk (Market risk: Interest rate risk and Exchange rate risk), Credit risk, Liquidity risk, and Operational risk), Management of these risks

Unit -VI: Financial System in Nepal**8**

Financial liberalization, Financial sector reforms in Nepal (2002 – 2011);
Merger and acquisition of financial institutions;
Acts and bylaws governing financial institutions (NRB Act, NRB directives of risk management, Banking crime and punishment act, BAFIA) in Nepal, Regulations of financial institutions

Unit – VII: International Monetary Institutions**6**

International Monetary fund (IMF): Origin, goals, functions
The World Bank: Origin, goals, and functions
Asian Development Bank (ADB): Origin, goals, and functions
Asian Infrastructure Investment Bank (AIIB): Origin, goals, and functions.

References:

- Gomez, Clifford (2009). *Financial Markets, Institutions and Financial Services*. New Delhi: PHI Learning Private Ltd.
- Desai, B. (2009). *Financial Market and Financial Services*. New Delhi: Himalayan Publishing House.
- Fabozzi, F. J., Modigliani, I., Jon, F. J. and Ferri, M. G. (2011). *Foundations of Financial Market and Institution* (3rd ed.). New Delhi: Pearson, India.
- Gupta, S. B. (1992). *Monetary Economics: Institutions, Theory and Policy*. New Delhi: S. Chand and Company Ltd.
- Jhigan, M. L. (1989). *Monetary Theory* (2nd ed.). Delhi, Konark Publishers Pvt. Ltd., India.
- Mishkin, F. S. and Eakins, S. G. (2013). *Financial Markets and Institutions* (6th ed). New Delhi: Pearson, India.
- Nepal Rastra Bank (1996). *40 years of Nepal Rastra Bank*. Kathmandu: Nepal Rastra Bank, Nepal.
- Nepal Rastra Bank (2002). *International Monetary Fund and Nepal*. Kathmandu: Nepal Rastra Bank, Research department, Nepal.
- Nepal Rastra Bank (2004). *Asian Development Bank and Nepal*, Kathmandu, Nepal Rastra Bank, Research department, Nepal.
- Nepal Rastra Bank (2006). *50 years of Nepal Rastra Bank*, Kathmandu: Nepal Rastra Bank, Nepal.
- Nepal Rastra Bank (2010). *Risk Management Guidelines*, Kathmandu: Nepal Rastra Bank, Bank supervision department, Nepal.
- NEPSE (...). Various Publications, Kathmandu, Nepal
- Paudel, N. P. (B. S. 2067). *Nepalese Financial System and Investment Environment*. Kathmandu: Ratana Pustak Bhandar, Nepal.
- Paul, R. R. (2001). *Monetary Economics*, Kalyani Publishers, New Delhi, India.
- Saunders, A. and Cornett, M. M. (2015). *Financial Market and Institutions* (3rd ed). New Delhi: McGraw Hill Education Pvt. Ltd. India.
- SEBoN (...). Various Publications, Kathmandu, Nepal.
- Singh, P. and Marwah, R. (1989). *Monetary Theories*. New Delhi: TataMcGraw-Hill Publishing Company Ltd. India.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Mathematical Economics**

Course No.: ECO 544

Nature of the Course: Theory

Year: Second

Semester: IV

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objective

Course objective: *The objective of this course is to educate the students with the use of mathematical tools in economic analysis and to make them able to understand and interpret the results. After completion of the course student will be able to apply these mathematical tools in economic research.*

Unit I: Theory of Consumers Behavior 11

Utility maximization; Consumers demand functions (ordinary demand function, Compensated demand function; Choice of utility index; Substitution and income effect (The Slutsky equation); Envelope theorem: Roy's identity; Shepherd's lemma and Duality.

Unit I I: Basic Concepts on: 2

Vector space; Convex sets; and Concave functions.

Unit III: Theory of Production 7

Linearly homogeneous production function Cobb Douglas production function, CES (Constant Elasticity of Substitution) production function; Derivation of cost functions from Cobb- Douglas and CES production functions; Relationship between C-D function and CES production function.

Unit IV: Simultaneous Difference and Differential Equation System 5

Linear simultaneous difference and differential equation system; Dynamic input-output model.

Unit V: Economic Applications of Difference and Differential Equation 14

Cobb-Web Model, A market model with inventory, Adaptive expectation and market stability (Nerlove's) model , Harrod-Domar growth model, Solow growth model, A market model with price expectation, Samuelson's multiplier accelerator interaction model, Hick's multiplier accelerator interaction model; Inflation and unemployment models.

Unit VI: Optimum Control Theory

6

Nature of optimum control; Pontryagin's maximum principle; Alternative terminal condition; Economic applications: Life time utility maximization.

Unit VII: Basic Concepts on SAM and CGE Models

3

References

Allen, R.G.D. (1964), *Mathematical Economics*, second Edition, London: Macmillan & Co. Ltd.

Chiang, Alpha C. (1992). *Elements of Dynamic Optimization*. New York: McGraw Hill Book Company

Chiang, Alpha C. and Kevin Wainwright (2005), *Fundamental Methods of Mathematical Economics*, fourth edition, Singapore: McGraw-Hill

Chitrakar, Kamal (2002). *Mathematical Economics*. Kirtipur, Kathmandu :KshitizPrakasan

Cimon, C. P. & Blume, L.(2017). *Mathematics for economists*. New Delhi: Viva Books

Dhakal, Ramchandra(2012). *Mathematical Economics*. Kirtipur, Kathmandu: Oxford Books House.

Guru-Gharana, KishorK.and Jeetendra P. Aryal (2001). *Mathematical Economics*. Kirtipur, Kathmandu: New Hira Books Enterprise

Henderson, James M. and Richard E.Quandt (2003). *Micro Economic Theory: A Mathematical Approach*, Third Edition, New Delhi: Tata McGraw-Hill Publishing Company Limited.

Silberberg, Eugene and Wing Suen (2001) *.The Structure of Economics: A mathematical analysis, 3rd edition: McGraw – Hill*

Varian, Hal R. (2010). *Microeconomics Analysis*, Third edition. New Delhi: VinodVasishtha for Viva Books Private limited.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Environmental and Natural Resource Economics**

Course No.: ECO 545

Nature of the Course: Theory

Year: Second

Semester: IV

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objectives: *This course deals with economic analyses of resource use and management to understand economic tradeoffs and incentives that influence behavior to address environmental challenges. For this, students will understand and analyze externalities in resource use, economic causes of environmental problems and their market solutions. Students will also develop analytical skills to evaluate policies of natural resource use in terms of their economic impacts and effectiveness in sustainable development.*

Unit-I: Introduction

5

Environmental economics; Resource economics; Ecological economics, Green economy; Bio-economy; Environmental economics in the international development community; Resource curse; Green accounting; Common property resources; Environmental Kuznets curve

Unit-II: Externalities and Market Failures

9

Welfare economics; Review of microeconomic concepts related to the function (or dysfunction) of markets; Market failures; Reasons of market failures; Externalities and environmental problems; Social costs of externalities; Factors affecting demand and supply of resources; Pareto optimum; Trade and the environment with pollution-haven hypothesis; Environmental and development issues that arise from market failures

Unit-III: Measuring Values, Benefits and Costs

7

Resource values as shadow prices; non-market valuation; Value of public goods; WTP versus WTA; Compensating variation and equivalent variation; Individual preferences and intertemporal choice; Social and private discounting (net present value, net future value, annualized values); Intra-generational social discounting; Inter-generational social discounting;

Unit-IV: Economics of Renewable Resources

6

Growth curves; Rate of exploitation; Coase's theorem; Costs and revenues; Extinction of species and biodiversity

Unit-V: Economics of Exhaustible Resources 4

Fundamental principle of exhaustible resources; Optimal resource use; Resource prices; Monopoly and the rate of extraction;

Unit-VI: Economic Activities, Natural Resources and their Conservation 5

Dependence on natural resources; Economic costs of resource damage; Economic incentives and natural resource management policy; Development and total economic value; Irreversibility and sustainability; Resource scarcity mitigation; Ecosystem services; Payment for ecosystem services

Unit-VII: Economics of Climate Change 6

Economics of climate change; Economics of adaptation to the climate change; Economics of mitigation of climate change; Carbon tax; Carbon trade; Comparison of cap and trade of carbon emissions

Unit-VIII: **Solutions to Resources Degradation and Environmental Problems** 6

International environmental agreements; Formal regulation of pollution; Informal regulation of pollution; Municipal environmental services; Polluters pay principle; Pigouvian tax.

References

Allen, R. E. (ed.) (2008). *Human ecology economics: A new framework for global sustainability*. Abingdon: Routledge⁵.

Andersson, J. O. and Eriksson, R. (2010). *Elements of ecological economics*, Abingdon: Routledge⁶.

Angelsen, A., Larsen, H. O., Lund, J. F., Smith-Hall, C., and Wunder, S. (eds.) (2011). *Measuring livelihoods and environmental dependence*, London: Earthscan⁷.

Bishop, J. (ed.) 2011 *The Economics of ecosystems and biodiversity in business and enterprise*, London: Earthscan.

Brink, P. (ed.) (2011). *The economics of ecosystems and biodiversity in national and international policy making*. Abingdon: Routledge

Cato, M. S.t (2008). *Green economics: An introduction to theory, policy and practice*, London: Earthscan.

⁵ Available at
file:///D:/Project%20Misc/111/Economics%202018/Cost%20Benefit%20Analysis%202018/
Human-Ecology-Economics-Roy-E.-Allen-2008.pdf

⁶ Available at googlebook

⁷ Available at
file:///D:/Project%20Misc/111/Economics%202018/Cost%20Benefit%20Analysis%202018/
BAngelsen1102.pdf

- Endres, A. (2010). *Environmental economics: Theory and policy*, Cambridge: Cambridge University Press.
- Fan, G., Ackerman, F., Stern, N., Edenhofer, O., Xu, S., Eklund, K., Li, L., and Hallding, K. (eds.) (2011). *The economics of climate change in China: Towards a low carbon economy*, London: Earthscan
- Freeman, A. M. III (2003). *The Measurement of environmental and resource values: Theory and methods* (2nd ed), New York: RFF Press⁸.
- Goodstein, E. S. and Polasky S. (2014). *Economics and the environment, (7th Ed.)*, New Jersey: Wiley.
- Haab, C. T. and McConnell, K. E. (2002). *Valuing environmental and natural resources: The econometrics of non-market valuation*. Massachusetts: Edward Elgar
- Hanley, N., Shogren, J., and White, B. (2012). *Introduction to environmental economics*. Oxford: Oxford University Press.
- Kolstad, C. D. (1999). *Environmental economics*. Oxford: Oxford University Press.
- Kumar, P. (ed.) (2010). *The economics of ecosystems and biodiversity (TEEB: The economics of ecosystems and biodiversity)*. London: Earthscan.
- Nick, H., Shogren, J. S., White, B. (2001). *Introduction to environmental economics*. Oxford: Oxford University Press.
- Ninan, K. N. (ed.) (2010). *Conserving and valuing ecosystem services and biodiversity*. Abingdon: Routledge.
- Tietenberg, T. and Lewis, L. (2009). *Environmental economics and policy (6th ed.)* New Delhi: Pearson.
- Tietenberg, T. and Lewis, L. (2012). *Environmental & natural resource economics (9th ed.)*. New Delhi: Pearson⁹.

⁸ Available at <http://econdse.org/wp-content/uploads/2016/07/Freeman-Herriges-Kling-2014.pdf>

⁹ Available at <http://s1.downloadmienphi.net/file/downloadfile7/200/1375238.pdf>

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Labour and Human Resource Economics**

Course No.: ECO 546

Nature of the Course: Theory

Year: Second

Semester: IV

Level: Graduate

Full Marks: 100

Pass Marks: 50

Period per Week: 3

Time per Period: 1 hour

Total Period: 48

Course Objective:

The course aims are to acquaint the students with the human development and labour relations. It shows the relationship with human development and labour relations in the economy

Unit 1. Introduction to Labour Economics

6

Evolution of labour economics, Relationship between labour economics and labour problems, Inter disciplinary character of labour economics, Changing dynamics of labour economics, Contemporary labour economics.

Unit 2. Labour Market

10

Labour market: Classical, Neo-classical and modern approaches to labour market; Organised and unorganised labour market; Labour market rigidity and flexibility; Changing nature of labour market under globalization; Global labour issues and International Labour Organisation (ILO); Labour market discrimination; Segment of labour market: Labour supply-Determinants of labour supply, Demand for labour- Labour demand and Marshall's rules of derived demand; Labour market equilibrium; Determinants of the demand for labour.

Unit 3. Wage and Productivity

6

Wage and economic development; Theories of wage (Classical, neo Classical and Modern), Relationship between wages, employment and productivity; Labour productivity: concept, measurement, determinants and measures to increase labour productivity; Wage differential and discrimination.

Unit 4. Human Capital

6

Human Capital Formation; Indicators, problems and issues, human capital formation in less developed countries; Human development index; Human resources and man power planning.

Unit 5: Concept and Indicators of Human Development

10

Concept and scope of human development; Components of human development; Approaches of human development; Human development indicators and its measurement; Human rights and human development; Human Capital Formation: Issues and problems of human capital formation in less developed countries; Human development index.

Unit 6: Theories of human development

6

Sigmund Freud's Psycho-analysis theory; Erik Erickson's psychological theory; Jean Piaget's cognitive development theory; John B. Watson and B. Skinner's classical and operant conditions theory; Albert Bandura's socio-cognitive learning; Karl Rogers theory of humanism;

Unit 7. Human Development and Labour Relations with respect to Nepal

4

Education, Health and Nutrition Policy; Employment Policy; Labour Policy

References

- Anand, S. & Sen, A. (2000). Human development and economic sustainability. *World Development* 28(12): 2029–2049
- Bertrand, O. (1992). *Planning human resources: methods, experiences and practices*. New Delhi: Sterling Publishers.
- Bhagoliwal, T. N. (1998). *Economics of labour and industrial relations*. Agra: Sahitya Bhavan
- Castillo, M. D.(2011). *Labour force framework: Concepts, definitions, issues and classifications*. Geneva: ILO, Department of Statistics.
- CBS (2014). *Population monograph of nepal-2011, Vol. I, II, and III*. Kathmandu: National Planning Commission.
- Fallen P. and Verry D. (1989). *The economics of labour markets*. New Delhi: Heritage publishers.
- Government of Nepal (..) Various Nepal Government policies related education, health and nutrition, Employment, labour
- Haq, M. U. (2003). *Human Development in South Asia: The Employment Challenge*. Karachi: Oxford University Press.
- ILO (2013). *Perspectives on Labor Economics for Development*. New Delhi: Academic Foundation., India.
- Kaufman, B.E. and Hotchkiss, J. L. (2005). *Labour market economics*. India: Cengage Learning.
- Kaushal, H. (2004). *Case study solutions: human resource development*. India: Macmillan India Ltd.
- Kerr, C. and Staudohar, P.D. (1994). *Labour economics and industrial relations*. Harvard: Harvard University Press.
- Kothari, V. N. (1992). *Issues in human capital theory and human resource development policy*. Mumbai: Himalaya Publishing House.
- Lester, R.A.(1964). *Economics of Labour* (2nd Edition). New York: Macmillan.
- Michael, V.P. (1996). *Human Resources Management and Human Relations*. Mumbai: Himalaya Publishing House.
- Ministry of Labour and Employment (2016)). *Labour Migration for Employment: A Status Report for Nepal: 2014/2015*. Kathmandu: Government of Nepal.
- Mitchell, D. J. B. and Zaidi, M.A. (1990). *The Economics of Human Resource Management*. Cambridge: Basil Blackwell.
- Mittal, A. C & Sharma, S. P. (2005). *Labour economics*. Jaypur: RSBA
- Rao, T. V. (1996). *Human resource development*. New Delhi: Sage Publications
- Reynolds, L. G. (1998). *Labour economics and labour relations*. USA: Prentice Hall.
- Sapsford, D. (1983). *The economics of the labour market*. London: George Allen and Unwin Ltd.
- Schultz, T. W. (1981). *Investing in People: The Economics of Population Quality*. New Delhi: Hindustan Publishing Corporation.
- Sharma, A.N. and Kundu, A. (eds) (2001). *Informal sector in India: emerging perspectives*. New Delhi: Institute for Human Development.
- Sharma, A.V, (1999). *Aspect of labour welfare and social security*. New Delhi: Himalaya Publication House.
- Todaro, M. P. (1997). *Economic Development*. 6th edition. New York: Longman.
- UNDP (1990). *Human Development Report 1990*. New York: Oxford University Press.
- UNDP (2001). *Human Development Report 2001*. New York: Oxford University Press.
- Venkata Rathnam C. S. (2001). *Globalisation and labour management relations: Dynamics of change*. New Delhi: Sage publications.

Far-western University
Faculty of Humanities and Social Sciences
Mahendranagar, Kanchanpur, Nepal
Master of Arts in Economics

Course Title: **Thesis**
Course No.: ECO 543
Nature of the Course:
Year: Second
Semester: IV
Level: Graduate

Full Marks:
Pass Marks:
Period per Week:
Time per Period:
Total Period: