

MA Economics
Financial Economics

Code:

Total Credits: 03

Semester: IV

Teaching Hours: 48

Course Objective:

The objective of the course is to introduce students on various issues on financial economics like financial institutions, markets, instruments and role of financial system in an economy as a whole. It will also provide knowledge on theories of financial system, interest rate, risk and return, risk management, and relationship between finance and economic growth. Besides, students will be familiarized with the theories of financial crisis, financial sector reforms and its stability.

Unit 1: Introduction to Financial System **6 hrs.**

- Financial Institutions;
- Financial Market: Money and Capital Market, Primary and Secondary Market, Derivative Market, and Foreign Exchange Market;
- Financial Instruments (Assets): Deposits, Bonds, Share, Derivative Instruments;
- Role of Financial System.

Unit 2: Theories of Financial System **6 hrs.**

- Time Value of Money: Present and Future Value (Lump sum amount, Annuity and Perpetuity, Discount Rate (factor), Net Present Value (NPV);
- Leverage Ratio, Efficient Market Hypothesis, Modigliani-Miller Theorem.

Unit 3: Term Structure of Interest Rate and Theories **4 hrs.**

- Concept, Yield Curves and their Slopes;
- Theories: The Expectation Theory, the Liquidity Premium Theory and Market Segmentation Theory.

Unit 4: Decision under Uncertainty **4 hrs.**

- Expected Utility, Measuring and Interpreting Risk;
- Risk and Investment Decision.

Unit 5: Asset Pricing **5 hrs.**

- Risk and Return; Risk Premium; Mean Variance Frontier;
- CAPM and its Extension; Markowitz Efficient Frontier; Arbitrage Pricing Theory.

- Unit 6: Risk for Financial Institutions and their Management** **5 hrs.**
- Types of Risk: Market Risk (Interest Rate Risk and Exchange Rate Risk), Credit Risk, Liquidity risk, and Operational Risk;
 - Management of these Risks.
- Unit 7: Finance and Economic Growth: Theory and Evidence** **5 hrs.**
- Nexus between Financial Sector and Economic Growth
 - Bank Based vs. Market Based Finance
 - Access to Finance and Financial Inclusion
- Unit 8: Financial Crises: Theory, Evidence and Remedies** **6 hrs.**
- Theories: First, Second and Third Generation; Minsky's Financial Instability Hypothesis;
 - Financial crisis 2007/08; Remedies for Financial Crisis.
- Unit 9: Financial System in Nepal** **7 hrs.**
- Financial Liberalization
 - Financial Sector Reforms in Nepal (2002-2011);
 - Mergers of Financial Institutions;
 - Current Financial System in Nepal: Institutions, Markets, and Instruments; □ Structure of Stock Market in Nepal

References:

- Allen, Franklin and Gale, Douglas (2007), Understanding Financial Crises, Oxford University Press.
- Burten, M. and Brown, B. (2009). The Financial System and the Economy: The Principle of Money and Banking. (5th ed.) PHI Learning Private Ltd. New Delhi.
- Gomez, Clifford (2009). Financial Markets, Institutions and Financial Services. PHI Learning Private Ltd., New Delhi.
- Danthine, Jean-Pierre and Donaldson, John B. (2014). Intermediate Finance Theory, (3rd ed.). Academic Press.
- Desai, B. (2009), Financial Market and Financial Services. New Delhi: Himalayan Publishing House.
- Fabozzi, F.J., Modigliani, I., Jon, F.J. & Ferri, M.G. (2011). Foundations of Financial Market and Institution. (3rd ed.). Pearson, New Delhi, India.

Farmer, Roger E. A. (2010). *How the Economy Works: Confidence, Crashes and Selffulfilling Prophecies*. Oxford University Press.

Gine, X. (2007). Why Does Access Matter? Impact on Growth and Poverty. In Barr M. Kumar, A. and Litan, R.E. (eds), *Building Inclusive Financial Systems: A Framework for Financial Access*. The Brookings Institution, USA.

Gregoriou, Greg N. (2010). *The Banking Crisis Handbook*. CRC Press.

Gupta, S.B. (1992). *Monetary Economics: Institutions, Theory and Policy*. S. Chand and Company Ltd. New Delhi.

IMF (2001). *Asian Financial Crisis: Origin, Implications and Solutions*. International Monetary Fund.

IMF (2013). *Key Aspects of Macro Prudential Policy*. International Monetary Fund.

Kindleberger, C. and R. Aliber (2005). *Manias, Panics, and Crashes: A History of Financial Crises*, (5th ed.). Wiley, NY.

King, R. G. and R. Levine (1993). Finance and Growth: Schumpeter Might be Right. *Quarterly Journal of Economics*, 108: 717-738.

LeRoy, Stephen F. and Werner, Jan (2000), *Principles of Financial Economics*. Cambridge University Press.

Levine, R. (1997). Financial Development and Economic Growth: Views and Agenda. *Journal of Economic Literature*, Vol. XXXV (June 1997), pp. 688-726.

Levine, R. (2004). *Finance and Growth: Theory and Evidence*. NBER Working Paper 10766.

Minsky, Hyman P. (1982). *Can It Happen Again?* Armonk, N.Y.M.E. Sharpe.

Minsky, H. (1992). *The Financial Instability Hypothesis*. Working Paper no 74, Levy economics Institute.

Mishkin, F.S. and Eakins, S.G. (2013). *Financial Markets and Institutions*, (5th ed.). Pearson, New Delhi, India.

NRB (1996). *40 Years of Nepal Rastra Bank*. Nepal Rastra Bank, Kathmandu, Nepal.

NRB (2006). *50 Years of Nepal Rastra Bank*. Nepal Rastra Bank, Kathmandu, Nepal.

Paudel, Narayan P. (2067 BS). *Nepalese Financial System and Investment Environment*. Ratna Pustak Bhandar, Kathmandu, Nepal.

Paul, R.R. (2001). *Monetary Economics*, Kalyani Publishers, New Delhi, India. Sharma, M. and Pais, J. (2011). Financial Inclusion and Development. *Journal of International Development*, 23(5): 613-628.

Semmler, W. (2014). *Asset Prices, Booms and Recessions*. Springer, October 14. Siegel, Laurence B. (2009). *Insights in to the Global Financial Crisis*. Research Foundation of CFA Institute.

Saunders, Anthony and Cornett, Marcia M. (2013). *Financial Institution Management: A Risk Management Approach*. (7th ed.). McGraw Hill Education Pvt. Ltd. New Delhi. Van Home James C. and Dhamija, S. (2012). *Financial Management and Policy*. Pearson, New Delhi.

MA Economics
Public Economics-II

Code:

Total Credits: 03

Semester: IV

Teaching Hours: 48

Course Objective:

This course is designed with a view to provide advanced theories of Public Economics and related policies. Upon completion of this course, the students will develop confidence towards building a comprehensive understanding of the dynamics of Government Finance.

Unit 1: Budget

- Concept of budget cycle and operation of the budgetary process
- Reforms in budgeting: programme budgeting, performance budgeting, zero based budgeting, planning-programming-budgeting system (PPBS), gender responsive budget (GRB)
- Performance based in public expenditure management

Unit 2: Deficit Financing and Foreign Aid

- Role of deficit financing for resource mobilization
- Methods of deficit financing
- Implications of foreign aid in deficit financing
- Conditional and unconditional grant

Unit 3: Fiscal Federalism

- Concept of fiscal federalism and decentralization
- Revenue assignment
- Expenditure assignment
- Inter-governmental fiscal transfer
- Fiscal institutions

Unit 4: Public Debt

- Role of Public Debt in Economic Development
- Loan and Taxes
- Compensatory Aspect of Debt Policy
- Intergeneration Equity and Shifting of burden to Prosperity: The Concept of Pigou, Bowen-Davis-Koff Hypothesis, the Concept of Modigliani and Musgrave
- The Concept of Debt Trap and its Consequences
- Effects of Public Debt and Management of Public Debt

Unit 5: Black Economy and Corruption

- Concept, Classification, Causes and Consequences of Black Economy and Corruption
- Measurement of Black Economy
- The Concept of Money Laundering
- Remedies for Curbing Black Economy and Corruption

References:

Ahmed, Ehtisham and Giorgio Brosio (2006), Handbook of Fiscal Federalism, Edward Elgar Publishing Limited

Atkinson, A. and Stiglitz, J. (1980), Lectures in Public Economics, McGraw Hill

Aurebach, A. and Feldstein, M. (2002), Handbook of Public Economics, North Holland

Boadway, Robin and Shah Anwar (2009), Fiscal Federalism: Principles and Practice of Multi-order Governance: Cambridge, Cambridge University Press

D. Vines And C. Allsopp. (2005). Oxford Review of Economic Policy: Fiscal Policy (Vol.21). Oxford: Oxford Unoversity Press.

Due, J. F. (1993). Government Finance: An Economic Analysis. illinois: Richard D. Irwin.

MA Economics
Nepalese Economy

Code:

Total Credits: 03

Semester: IV

Teaching Hours: 48

Course Objectives:

The prime objective of this course is to provide an in-depth analytical knowledge about the various facets of Nepalese economy with macroeconomic indicators and international comparison to students aspiring for the Degree of MA in Economics at Tribhuvan University.

Unit 1: Introduction

4 hrs.

- Review of current economic status employing latest macro-economic indicators and international comparison especially with reference to SAARC.

Unit 2: Sectoral Development

11 hrs.

- Status, Problems and Prospects:
 - Agriculture Sector;
 - Water Resources and Hydropower;
 - Infrastructure especially Roads;
 - Manufacturing Sector;
 - Foreign Trade and existing Nepal-India Trade Treaty;
 - Foreign Direct Investment (FDI);
 - Tourism Sector; and
 - Human Resources, Foreign Employment and Remittances.
- Current Policies and Acts:
 - National Agriculture Policy;
 - Industrial Policy;
 - Foreign Employment and Remittance Policy;
 - Industrial Act; and
 - Foreign Investment and Technology Transfer Act.

Unit 3: Fiscal Situation, Monetary Policy, Financial Institutions and Financial Sector Reform

11 hrs.

- Structure of the Current Budget;
- Recent Trends in Taxation, Expenditure, Foreign Aid, and Public Debt and Major Fiscal Issues;
- Review of Current Monetary Policy devised by Nepal Rastra Bank (NRB);
- Appraisal of the Performance of Financial Institutions especially with reference to commercial Banks; and
- Status of Financial Sector Reforms.

Unit 4: Economic Planning and Development, Employment and Labor Market and

Poverty Alleviation

10 hrs.

- Analysis of the Objectives, Policies, Priorities, Strategies and Resource Allocation of the current Plan;
- Status of Employment and Labor Market Situations;
- Status of Foreign Employment;
- Efforts towards Poverty Alleviation with reference to MDGs; and
- Poverty Alleviation Fund.

Unit 5: Regional and International Cooperation

7 hrs.

- Overview of the status and activities undertaken by SAFTA, BIMST-EC, WTO with special reference to Nepal;
- Review of the current status of Economic Cooperation provided by the major donor countries including India, China and Japan, and Multi-lateral Agencies to Nepal especially the World Bank (WB), International Monetary Fund (IMF), and the Asian Development Bank (ADB).

Unit 6: Status of Public Enterprises in Nepal

5 hrs.

- Status of public enterprises and scope of Public Private Partnership in Nepal.

References:

ADB (2007). Nepal Economic Update, 2014. Kathmandu.

ADB (Various years). Asian Development Bank Outlook.

ADB/Nepal (2009). Nepal: Critical Development Constrains. www.adb.org

CBS/GoN (2010). Nepal Living Standard Survey (NLSS), 2010/11. Central Bureau of Statistics.

MA Economics
Mathematical Economics

Code:

Total Credits: 03

Semester: IV

Teaching Hours: 48

Course Objective:

The objective of the course is to educate the students with the use of mathematical tools in economic analysis and to make them understand and interpret the result.

Unit 1: Theory of Consumer Behavior **8 hrs.**

- Utility Maximization;
- Consumer's Demand Function (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; Duality and Alternative Slutsky Equation.

Unit 2: Introduction to Real Analysis **6 hrs.**

- Real Numbers: Sets, Axioms, Absolute Value Boundedness, Completeness of R;
- Neighborhoods and Limiting Points;
- Sequences: Monotone Sequences, Subsequences;
- Infinite Series: Convergent and Divergent.

Unit 3: Theory of Production **4 hrs.**

- Cobb-Douglas (C-D) Production Function;
- CES (Constant Elasticity of Substitution) Production Function;
- Relationship between C-D Production Function and CES Production Function.

Unit 4: Simultaneous Difference and Differential Equation System **5 hrs.**

- Linear Simultaneous Difference and Differential Equation System;
- Dynamic Input-Output Model.

Unit 5: Economic Application of Difference and Differential Equation **14 hrs.**

- A Market Model with Inventory;
- Adaptive Expectation and Market Stability (Nerlove's) Model;
- Harrod-Domar Growth Models;
- Solow Growth Model;
- A Market Model with Price Expectations;

- Samuelson's Multiplier Accelerator Interaction Model;
- Hick's Multiplier Accelerator Interaction Model;
- Inflation and Unemployment Model;
- Kalecki's Model (Earlier and Dynamic Optimization).

Unit 6: Optimum Control Theory

6 hrs.

- Nature of Optimum Control;
- Pontryagin's Maximum Principle;
- Alternative Terminal Condition;
- Economic Applications: Life-time Utility Maximization and Exhaustible Resource.

Unit 7: Introduction to SAM and CGE Models

5 hrs.

References:

- Allen, R.G.D. (1964). *Mathematical Economics*, (2nd ed.). London: Macmillan & Co. Ltd.
- Chaing, Alpha C. (1992). *Elements of Dynamic Optimization*. New York: McGraw Hill Book.
- Chaing, Alpha C. and Kevin Wainwright (2005). *Fundamental Methods of Mathematical Economics*, (4th ed.). Singapore: McGraw Hill.
- Chitrakar, Kamal (2002). *Mathematical Economics*. Kirtipur, Kathmandu: Kshitiz Prakashan Company.
- Dhakal, Ramchandra (2012). *Mathematical Economics*. Kirtipur, Kathmandu: Oxford Books House.
- Gupta, S.L. and Rani, S. *Fundamental Real Analysis*, (4th ed.). Vikash Publishing House, India.
- Gurugharana, Kishor K. & Aryal, Jeetendra P. (2001). *Mathematical Economics*. Kirtipur Kathmandu: New Hira Books Enterprises.
- Henderson, James M. & Richard E. Quandt (2003). *Microeconomic Theory: A Mathematical Approach*, (3rd ed.). New Delhi: Tata McGraw-Hill Publishing Company Ltd. India.
- Lal, Dr. K.B. *Foundation of Real Analysis*. Bharati Bhawani (Publishers and Distributers). India.
- Narayan, S. & Raisinghania, M.D. *Elements of Real Analysis*. S and Chand Company. Pradhan, K. Basanta; Saluja, M.R. & Sharma, K. Akhilesh (2013). *A Social Accounting Matrix for India 2007-08*. <http://books.google.com/.../A...>
- Royden, H. L. & Fitzpatrick, P.M. *Real Analysis*, (4th ed.). PHI Learning, Pvt. Ltd. Delhi.
- Saluja, M.R. & Yadav, B. (2006). *Social Accounting Matrix for India 2003-04*. http://planningcommission.gov.in/reports/sereport/ser/sr_sam.pdf
- Silberberg, Eugene & wing suen (2001). *The Structure of Economics: A Mathematical Analysis*, (3rd ed.). McGraw-Hill.
- Varian, Hal R. (2010). *Microeconomic Analysis*, (3rd ed.). New Delhi: Vinod Vasishtha for Viva Books private Limited.

Applied Statistics

Semester IV

Credit:3

Teaching Hrs. 48

Course Objectives : The main objective of this course is to train the students to use the techniques of statistical analysis, which are commonly applied to understand and analyze economic variables and economic problems. The emphasis of this course is on understanding economic concepts with the help of statistics methods rather than learning statistics itself.

Unit I: Introduction

8

Review of descriptive statistical measures and their applications in economic data, exploring data. Historical development of statistics, role of statistical methods, fundamental principles of official statistics, quality approaches to big data in official statistics, methods and techniques of data, data bank and data protection management system, logical framework (log frame).

Unit II: Sampling Techniques, Estimation and Hypothesis Testing

10

Sampling and its advantage, sampling methods, practical uses of sampling, nature, and process of sample survey; Estimation, point and interval estimation, testing of hypothesis: application of parametric and non-parametric tests; Level of significance, p-value, confidence limits, and critical region; tests of significance-type I and II errors.

Unit III: Regression, Time Series and Forecasting

14

Regression analysis (simple and multiple). Forecasting with single equation regression model. Time series: components of time series, additive and multiplicative models, determination of trend, analysis of seasonal fluctuations, test for trend and seasonality, exponential and moving average. Smoothing and extrapolation of time series: Simple extrapolation model, Smoothing and seasonal adjustment. Properties of stochastic time series.

Unit IV: Statistical System in Nepal

12

Present official statistical system in Nepal. Methods of collection of official statistics in Nepal and their reliability and limitations, principle publication of statistics in the different area of Nepalese economy including population, health, agriculture, industry, trade, labour and employment, transportation and communication. Index numbers computation. System of national accounts in Nepal.

Unit V: Statistical Packages for Economic Research

4

Use of statistical softwares like SPSS, Eviews etc.

M. Ranjit

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References

- Bhusal, T.P. (2013). *Basic Econometrics*. Dreamland Publication Pvt.Kathmandu.
- Brockwell, P.J & Davis, R.A. (2002). *Introduction to Time Series and Forecasting* (Second edition). Springer Verlag.
- CBS (2007). *National accounts of Nepal, 2000 - 2007*.
- David, A.; Anderson, D. J.; Sweeney, T. A. & Williams.(2002). *Statistics for Business and Economics*. Thomson South Western Publications.
- Different Publications of CBS, Nepal.
- Different Publications of NRB, Nepal.
- Gujarati, D. N. (2004). *Basic Econometrics*. McGraw Hill Publication
- Gupta, S.C & Kapoor, V.K (2000). *Fundamentals of Mathematical Statistics*. S. Chand & Co, New Delhi.
- Pal, N. & Sarkar, S.(2004). *Statistics Concepts and applications*, 2nd edition.
- Pindyck, R.S. & Rubinfeld, D.L.(1991). *Econometric models and economic forecast*. Singapore: McGraw-Hill
- Singh D. & Choudhary, F. S. (1986). *Theory and Analysis of Sample Survey Designs*. Wiley Eastern Ltd.
- Statistical Softwares (latest version).
- UNECE (2013). *What does Big Data mean for Official Statistics?*
- United Nations Fundamental Principles of Official Statistics, 1993.

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Natural Resource Economics

Course Objectives: This course is meant to equip the students with the knowledge of natural resource economics to enable them to use economic tools for studies in the fields of natural resource economics.

Semester IV

Credit:3

Unit I: Introduction

Teaching Hrs. 48

6

The emergence of resource and environmental economics and its linkage with welfare economics.
Nature of the problem (global and local): pollution and resources depletion

Unit III: Natural Resources Management

8

Renewable and Exhaustible Resources; Concept of Maximum Sustained Yield;
Rate of Exploitation; Conditions under which extinction could arise; External
Benefits of Resources; Climate Change and Natural Resource Management;
Environmental Justice; Policies and programs related to conservation of natural
resources in Nepal

Unit III: Natural and Environmental Resources Accounting

6

Resource accounting methods-physical account, monetary accounts, satellite accounts
and resources specific accounting
REDD, REDD +, Payment for Environmental Services
Implication for sustainable development

Unit VII: Economic Valuation- A

14

Option Value; Existence Value; Bequest Value; Willingness to pay and
Willingness to accept. Valuation and Cost Benefit Analysis

Unit VIII: Economic Valuation- B

14

Methods of Valuation; Direct and Indirect Valuation Methods; Hedonic Price
Approaches; Contingent Valuation Method; Dose-response Method; Travel
Cost Method and their applications; Valuation of human life: disability adjusted
life years (DALYs) and quality adjusted life years (QALYs)

References

Conrad, J.M. and C.W. Clark (1987). *Valuing Natural Resource Economics: Notes and Problems*.
Cambridge: Cambridge University Press.

Fisher, A.C. (1981). *Resource and Environmental Economics*. Cambridge: Cambridge University
Press.

Freeman, A. Myrick III (1997). *The Measurement of Environmental and Resource Values: Theory
and Method*, Second Edition. Washington, DC: Resources for the Future.

Hackett, S. C. (2011). *Environmental and Natural Resource Economics*, Routledge

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- Hanley, Nick, Jason F. Shogren, and Ben White (1997). *Environmental Economics: In Theory And Practice*. London: Macmillan Press Limited.
- Hardin, G. (1968). "The Tragedy of the Commons," *Science*, Vol. 162, pp. 1243-48.
- Karparagam M. (1999) *Environmental Economics*, Stearling Publications Private Limited
- Miller, G.T. (2013). *Environmental Science*, 14th. Edition. Cengage Learning
- Neher, Philip A. (1990). *Natural Resource Economics: Conservation and Exploitation*. Cambridge: Cambridge University Press.
- Pearce, David W. and Turner, R. Kerry (1990) *Economics of Natural Resource and The Environment*, The John Hopkins University Press, Baltimore
- Perman, Roger, Yue Ma, and James McGilvaray (1996). *Natural Resource and Environmental Economics*. London and New York: Longman. (Third Impression in 1998)
- Prato, Tony (1998) *Natural Resource and Environmental Economics*, Iowa State University Press
- Tietenberg, Tom (2001). *Environmental Economics and Policy*, Third Edition. Boston: Addison Wesley.
- World Commission on Environment and Development (1987). *Our Common Future*. London: Oxford University Press.
- Working papers from SANDEE publication www.sandeeonline.org
- Wright, R. T, Boorse, D.F. (2011). *Environmental Science. Towards A Sustainable Future* 11th. Edition, Pearson.
- Sayer, Jeffrey (3003). *The Science of Sustainable Development: Local Livelihoods and the Global Environment*. Cambridge University Press.

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Tourism Economics

Semester: IV

Credit: 3

Teaching Hours: 48

Course objectives: The objective of this course is to familiarize the fundamentals of tourism economics as a discipline. The primary objective of the course is to focus on economic aspect of tourism that would enable the students to understand and consider tourism as one of the prominent sector of the economy.

Unit 1: Nature of the tourism economics

LH 2

- I. Concept and principles of tourism economics

Unit 2: Tourism demand

LH 6

- I. Concept of tourism demand.
- II. Diversity and characteristics of demand.
- III. Measuring tourist demand (number, length of stay, expenditure, frequency of visit).
- IV. Elasticity of tourism demand (income and price elasticity).

Unit 3: Supply of tourism products

LH 7

- I. Concept of tourism supply.
- II. Tourism products and services (hotels, resorts, home stay)
- III. Transportation and communication (land ways, airways, waterways and communication networks)
- IV. Supply of other tourism related services
- V. Regulatory framework

Unit 4: Tourism and economy

LH 12

- I. Impact of tourism in the economy (direct, indirect and induced)
- II. Effect of tourism expenditure in national economy (multiplier, leakages and input and output analysis).
- III. Tourism and employment
- IV. Contribution of tourism in national economy (GDP, foreign exchange earnings, Govt. revenue)
- V. Tourism and balance of payments
- VI. Concept of Tourism Satellite Accounting and its significance

Unit 5: International tourism

LH 9

- I. Trends of international tourism
- II. World and regional tourism trend
- III. Economic determinants of international tourism (theory of factor endowments, theory of comparative costs, theory of absolute advantage and technology, theory of conditions of demand)

Unit 6: Tourism organizations and policies

LH 5

- I. National public and private sector tourism organizations

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- II. United Nations World Tourism Organizations (UNWTO)
- III. General agreements on trade and services
- IV. Role of tourism policy and planning in development

LH7

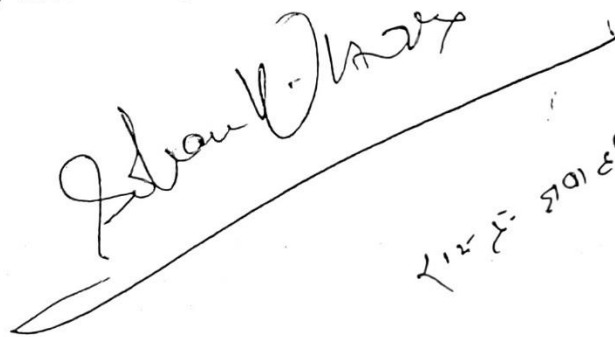
Unit 7: Tourism investment and finance

- I. Investment in travel and finance
- II. Special consideration in tourism investment (capital and labor intensive)
- III. Joint enterprises in tourism investment
- IV. Reasons for involvement of joint enterprises in travel and tourism
- V. Sources of finance in tourism sector

References

1. Agarwal, M.K. & R. Upadhyay. 2006. *Tourism and Economic Development in Nepal*. New Delhi: Northern Book Centre.
2. Bull, A. 1990. *The Economics of Travel and Tourism*. Australia: Pitman Publishing.
3. Gunn, C. A. 1988. *Tourism Planning*. Taylor and Frances.
4. Harison, D. 1992. *Tourism and Less Developed Countries*. London: Belhaven Press.
5. Mehesian, A & G. Wall. 1982. *Tourism: Economic, Social and Physical Impacts*. London and New York: Longman.
6. Murphy, P.E. 1985. *Tourism: A Community Approach*. London and New York: Rutledge
7. Paudyal, S. 2015. *Tourism in Nepal and SAARC*. New Delhi: Adroit Publishers.
8. N.R.B. 1989. Income and Employment Generation from Tourism in Nepal. Kathmandu: Nepal Rastra Bank.
9. Sharma, P.(ed.). 2000. *Tourism as Development*. Kathmandu & Austria: Himal Books and Studien Verlag Inn sbruck wien Mucha.
10. Sharma, P. 1995. *Tourism Carrying Capacity Analysis*, Discussion paper series no. NE195/1. Kathmandu: ICIMOD.
11. Shrestha, H. P. 2000. *Tourism in Nepal: Marketing Challenges*. New Delhi: Nirala Publications.
12. Upadhyay, R., H. Pradhan & R. Grandon. 2011. *Women in Nepalese Tourism: Opportunities and Challenges*. Varanasi and Delhi: Pilgrims Publishings.
13. Upadhyay, R. (ed.) 2008. *Readings in Rural Tourism*, Kirtipur, Kathmandu: Sunlight Publications.





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Energy Economics

Semester: IV

Credit: 3

Teaching Hours: 48

Course Objectives: The course will focus on the role of energy and energy resources in economic perspective. Basic economic principles and methods regarding the use of energy, in all its important forms (e.g coal, oil, gas, nuclear, electricity, and the various alternative fuels) and policy issues such as the environmental problems of energy use, regulation, the depletion of energy resources, and other problems pertaining to the energy are many areas of discussion. At end of the course the students will be familiarized with current energy issues and be enabled to review and prospects energy policy formulation.

UNIT-I : INTRODUCTION TO ENERGY ECONOMICS

10

Definition and basic concepts of energy - Natural Resources - classification - importance - Role of Natural Resources in Economic Development - Energy Resources - Types and classification - Properties of Energy - Forms of Energy - Emergence of Energy Economics - Its nature and scope - Energy indicators - Energy Economics relation with other branches.

Role of Energy in Economic Development - Energy Intensity and Energy Elasticity - Energy use in Low, Middle and High Income Economies - Role of NPC, WECS, NEA, NOC, Min of Energy, AEPC and International Institutions - OPEC, OAPEC, IEA, ADB and World Bank.

UNIT-II : ENERGY DEMAND AND SUPPLY ANALYSIS AND PROJECTION

18

Macro versus sectoral demand - Process analysis and Elasticity approach - Input-output method End use energy demand - Demand forecast and generation expansion plan

Energy resource assessment - Domestic resources - Sustainable energy resource
Introduction to sustainable energy technologies: Definition of sustainable energy - Patterns of global energy supply and assessment - Fossil fuel energy vs. sustainable energy - Current energy reserves - Resources assessment - Environmental impacts

Solar energy: General characteristics - Passive and active solar thermal energy - Power generation with thermal solar energy - Solar photovoltaic systems (solar cells) - Economics of solar energy - Sustainability attributes

Wind energy: History of wind energy - Global wind resources - Wind energy technologies
Wind tower and turbine design - Economics of wind energy - Sustainability attributes

Geothermal energy: Types of geothermal energy - Geographic distribution and availability of geothermal resources - Economics of geothermal energy - Sustainability attributes

Biomass energy: Prospect of biomass energy resources - Conversion of biomass to thermal energy - Conversion of biomass to intermediate energy resources (e.g. ethanol) - Economics of biomass energy - Sustainability attributes

Hydro energy: Extent and prevalence of hydropower - Geographic distribution and availability of hydropower resources - Economics of hydropower energy - Sustainability attributes

Unit III: Energy and Pricing Theory

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Theory of consumers and producers - Market equilibrium - Consumers' surplus - Producers' surplus - Elasticity - Prices of different sources of energy with reference to Nepal - Review of domestic players such as Nepal Oil Corporation, Nepal Electricity Authority and private sectors - Pricing policy analysis and their prospects.

UNIT-IV : NEPAL'S ENERGY PROFILE

8

NEPAL Energy Sector - Organizational Structure - Energy Supply (renewable and non-renewable) - Energy Demand (Agriculture, Industry, Transport, Domestic, etc) - Renewable Energy Sources and Technology (Hydro, Solar, Wind, Biogas, Biomass, Fossil fuel) - Renewable Energy Programs - Energy under Three Year Plans - Energy Issues and Policy Options for NEPAL.

Unit V: Energy Option Evaluation and Policy Analysis

8

Economic analysis of energy options - Energy pricing, taxes and subsidies, rationing - Supply-demand matching - Energy-GDP interaction - Energy poverty linkages and poverty reduction impact indicator for energy sector

References

Agarwal, S.K. - Environment and Natural Resources Economics (Scott Foresman & Co., London, 1985)

Banks, Ferdinand, (2000) *Energy Economics: A Modern Introduction* Kluwer Academic

Bardley, Robert L. and Richard W. Flumer, (2004) *Energy: The Master Resource* Pennwell Press

Cassidy, E., and P. Grossman, *Introduction to Energy Resources 2nd* (ed.) Cambridge University Press

Dahl, Carol, (2004) *International Energy Markets: Understanding Pricing, Policies and Profit* Pennwell Press

Griffin, James M. and Henry B. Steele. (1996) *Energy Economics and Policy 2nd* (ed.) Academic Press

Gyawali, Deepak. (2001) *Water in Nepal* Himal Books and Panos South Asia with Nepal Water Conservation Foundation

Hartwick, J. nad. N. Olewiler. (1998) *The Economics of Natural Resources Use* Addison Wesley

Nepal Water Conservation Foundation: Various Publishers

Nepal, Govinda, V.B.Amtya (2006) *Understanding Rural Energy Program and Poverty Reduction*

Linkage: An Empirical Study of Nepal Kathmandu: Energy Sector Assistant Program, Alternative Energy Promotion Centre (AEPC)

Odell, Peter, *Oil and Gas: Crisis and Controversies* Multi-Sciences Pub. Co.

Paul Stevens (Ed) - *The Economics of Energy*, Vol. I and II (Edward Elgar 2000)

Pindyck, R. (1979) *The Structure of World Energy Demand* MIT Press

Raikhy, P. S. and Parminder Singh., *Energy Consumption in NEPAL - pattern and Determinants* (Deep and Deep, New Delhi, 1990)

Ristinen, Robert and Kraushaar, Jack, (1999) *Energy and the Environment* John Wiley & Sons

Shresthacharya, Anop, (2002) *Energy Economic in Nepal* (Issues and Options), Udaya books

Sternner, T. (1992) *International Energy Economics* Kluwer Academic Publisher

Titenberg, T. (2002) *Environmental and Natural Resources Economic 5th* (ed.), Addison

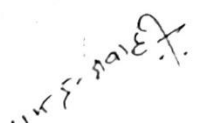
Tester, Drake, Driscoll, Golay, and Peters. (2005) *Sustainable Energy: Choosing Among Options* The MIT Press, Cambridge MA

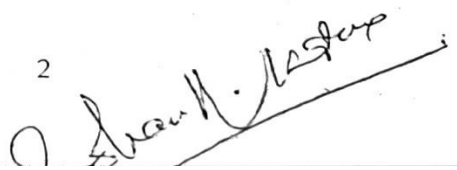
Water Nepal Journal of Water Resources Development, Various Issues

Various publications and issues of Central Bureau of Statistics, Ministry of Finance. Intermediate Technnology Group (ITDG), Nepal Electricity Authority, Water Energy Commission and Winrock International.

TERI - Teri Energy Data Directory and Year Book 2005-06 (The Energy Research Institute, 2005)





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William Burch (Ed.) - Readings in Ecology, Energy and Human Society: Contemporary Perspectives (Harper and Row, New York, 1997)

World Bank - World Development Report 1992 (Oxford University Press, China, 1992)

Others Academic Journals

Energy Economics
The Energy Journal
Energy Policy
International Journal of Regulation and Governance
The Journal of Energy and Development
The Journal of Energy Finance & Development
Resources, Energy and Development
Resources and Energy Economics

Text book, Reference and Journals

Sthresthachary, A. Energy Economy Modelling
Energy use in Mountain Areas: ICIMOD (1999)
Energy Data and Directory and Year Book 1997/98: Tata Energy Research Institute
Energy Statistic year book-United Nations Publication
Energy Policy: National and Regional Implications, Ed. Khatri et. al. and NEFAS, CASAC and FES Nepal, 2002
Economic Survey, Ministry of Finance, HMG/N
G. Nepal and Vishwa B. Amatya. (2006) Understanding Rura Energy Programme and Poverty Reduction Linkage: An Emprical study of Nepal, AEPC/ ESAP, (Forth coming)
Hirshleifer, Jack, Energy Pricing Theory, Prentice Hall
Integrated Energy Planning, Vol. 1,2,3, APDC, Malaysia
Nicholson, Walter. (1995) Microeconomic:Theory, Basic Principles and Extensions, sixth ed., The Dryden Press, Harcourt Brace College Publishers, Orlando

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HEALTH ECONOMICS

Semester: IV

Credit: 3

Teaching Hours: 48

Course Objective: The objective of this course is to provide the analytical skills and conceptual knowledge to understand the complexities of health care systems. The course discusses introduction of health economics. And, it follows to demand for and supply of health care, health care financing, and economic evaluation as well as core topics in health policy and planning.

UNIT I: Introduction to health economics

4 hours

1. Interrelations between health and economics
2. Role and scope of health economics

UNIT II: Demand and supply

14 hours

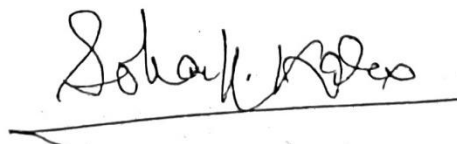
1. Demand for health and health care
3. Supplier-induced demand
4. Price and income elasticity of demand for health care
5. Supply of health care
6. Market for healthcare and market failure
7. Rationale for government intervention
8. Principal-agent relationships

UNIT III: Health care financing

12 hours

1. Uncertainty in health care, risk aversion and risk pooling
2. Functions of health care financing
3. Financing healthcare in Nepal with reference to other countries
4. Modalities of health insurance
5. Adverse selection and moral hazard







17

10 hours

UNIT IV: Economic evaluation

1. Analysis of health care costs
2. Measurement of health care outcomes: QALYs, DALYs
3. Cost-effectiveness analysis
4. Cost-utility analysis
5. Cost-benefit analysis
6. Benefit incidence analysis

8 hours


UNIT V: Health policy and planning

1. Universal health coverage and global health policy
2. National Health Policy and Health Sector Programme in Nepal
3. Social Health Protection and health insurance in Nepal

Note: Case studies related to Nepal are preferable.

References

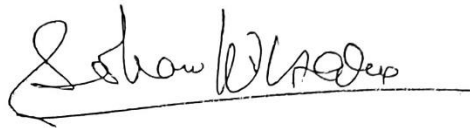
1. Musgrove, P (2004) *Health Economics in Development*. Washington DC: World Bank.
2. Guinness, L. & Wiseman, V. (2011) *Introduction to Health Economics*, 2nd ed., Maidenhead: McGraw-Hill.
3. Morris, S., Devlin, N., and Parkin, D. (2007) *Economic analysis in health care*. Chichester: John Wiley & Sons.
4. Phelps, C.E. (2003) *Health economics*. 3rd ed. London: Addison Wesley.
5. Drummond, M., O' Brien, B., Stoddart, G., Torrance, G. (2005) *Methods for the economic evaluation of health care programmes*. 5th ed. Oxford: Oxford University Press.
6. World Health Organization (2010) *Health systems financing: the path to universal coverage*. Geneva: World Health Organization.
7. World Bank (1993). *World Development Report: Investing in health*. Washington DC: World Bank.
8. Arrow, K.J. (1963). 'Uncertainty and welfare economics of medical care', *American Economic Review* 53(5): 941-973.
9. Grossman, M. (1972). 'On the concept of health capital and the demand for health', *Journal of Political Economy* 80: 223-255

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10. Wagstaff, A. (1986). 'The demand for health: theory and applications', *Journal of Epidemiology and Community Health* 40(1): 1-11.
11. Adhikari, S.R. (2014). 'Towards universal health coverage: an example of malaria intervention in Nepal', *WHO South-East Asia J Public Health* 3(1): 105-114.
12. Adhikari, SR (2013). Choices of health care financing schemes for resource poor country: An analysis of Nepal's experiences. *Health*, 5: 1295-1302.
13. Adhikari, S.R. and Siripen, S. (2010). 'A Cost Benefit Analysis of Elimination of Kala Azar in Indian Subcontinent: an Example of Nepal', *Journal of Vector Borne Diseases* 47: 127-139.
14. Vinyals I Torres, L., G.S. Gautam, F. Fuerst & C.M. Adhikari (2011). Assessment of the Government Health Financing System in Nepal: Suggestions for Reform. Kathmandu: Ministry of Health & Population / Health Sector Support Programme / GIZ.



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International Finance and Economic Cooperation

Semester IV

Credi:3

Teaching Hours :48

This course will introduce students to international financial issues covering exchange markets, and exchange rate system. It will also provide knowledge on capital movements, foreign aid and the challenges as well as problems associated with them. It will also provide knowledge about issues related to current and capital account convertibility and also about international monetary system and global integration and global financial crises.


- I. Foreign Exchange Market: Functions of foreign exchange market, Theories of exchange rate determination: Purchasing Power Parity Theory, Monetary models. 6
- II. Exchange Rate System: Fixed and Flexible Exchange Rates, The Mundell-Fleming model, the assets market approach, exchange rate policy. 6
- III. International Capital Movements: Direct and Portfolio Investment, Hosts States' and Parent States' Concerns, Costs and benefits. Short term and Long term capital movements and their implications. 6
- IV. Current and Capital Account Convertibility- Meaning, Benefits, Requirements and Problems. 6
- V. The Bretton Woods System, Problems of Liquidity, Confidence and Adjustment, Problems of LDCs and International Monetary Reform, Emerging Regional Financial Institutions. 6
- VI. Foreign Aid: The political economy of foreign aid, Aid Dialogues at the international level, external debts and the Developing Countries. 6
- VII. Global Economic integration: opportunities and challenges, global financial crises: Causes and Consequences. 6
- VIII. Eurocurrency Market- Meaning and Scope, the Participants. 6

References

Alan C. Shapiro: Multinational Financial Management, 8th edition, 2006,

Chakrabarti. Ashok: Aid, Institutions and Development, Oxford University Press, 2005

Dunning, J. H. : International Investment, Penguin Books.



- Foster, J.B. and Magdoff, F: The Great Financial Crisis: Causes and Consequences.
- Gomes, L: International economic Problems, the Macmillan Press.
- Groves, L and Hinton R. Inclusive Aid (edt): Changing Power Relationships and International Development, Earthscan, 2006.
- Heller, Robert H: International Monetary Economics, Prentice Hall, Englewood, Cliff's
- Journal Articles to be prescribed in the Course of Lecture.
- Salvatore, Dominick: International Economics, Macmillan, New York Publishing Co. New York.
- Thomas J. O'Brien: International Financial Economics: Corporate Decisions in Global Markets, 2nd Edition, by, Oxford University Press, 2006.
- Williamson J. and Milner, C: The World Economy, New York University Press.

Sobhan Jahan

فoster و Magdoff

~~Thomas J. O'Brien~~

~~Salvatore~~

ECONOMICS OF HUMAN RESOURCES DEVELOPMENT (HRD)

Semester IV

Credit:3

Teaching Hours: 48

The objective of the course is to introduce the students with concept, process, dimension and determinant factors of human resources development (HRD). This leads and shows the problems and issues of HRD and the relationship between HRD and economic development. Finally, this course tends to bring training component which is required for HRD and focuses on Policies.

UNIT I	INTRODUCTION TO HUMAN RESOURCES DEVELOPMENT (HRD)	4
	1. Concept, Indicators and Dimension of Human Resources Development	
UNIT II	INDICES OF HUMAN RESOURCE DEVELOPMENT	6
	1. Human Development Index and other indices by UNDP	
	2. Composite Index by Myers	
	3. Physical Quality of Life (PQLI) Index by Morris	
UNIT III	HUMAN CAPITAL AND HUMAN RESOURCES	6
	1. Concept, Characteristics, and Importance of Human Capital	
	2. Differences and Interdependencies between Human Capital and Human Resources	
UNIT IV	LABOUR FORCE AND EMPLOYMENT IN NEPAL	8
	1. Status of labour force and employment; participation rate	
	2. Industrial and Occupational distribution of employed labour force	
	3. Quality of labour force	
	4. Labour market - demand for and supply of labour	
	5. Recruitment – Planning, Process and Practice	
UNIT V	HUMAN RESOURCE MANAGEMENT (HRM)	10
	1. Meaning and Importance of HRM	
	2. Relationship between human resource management and human resource development	
	3. Benefit - Wage/salary, Overtime, social security, work environment, Occupational health and safety and promotion	

	4. Motivation and job satisfaction	
UNIT VI	POLICIES RELATED TO HRD IN NEPAL	8
	1. Education policy	
	2. Employment policy	
	3. Labour policy	
	4. Wage policy	
	5. Health Policy	
	6. On the Job Training Policy	
UNIT VII	PROBLEM AND PROSPECTS OF HRD	6
	1. Global HR practices	
	2. HRD Planning: Affecting Factors, Process and Problems.	
	3. Problem and Prospects of HRD: Policies, Planning, Implementation with Public Expenditure and Prospects.	

References

1. Curtis, B., Hefley, W. E., & Miller, S. A. (1999). *The people capability maturity model*. New Delhi: Hill Publishing Co. Ltd.
2. Dayal, I. (1970). *Management Training Organization*. New Delhi: Prentice Hall.
3. Famularo, Joseph J. (1987). *Handbook of Human Resource Management*. Singapore: McGraw Hill.
4. Ghosh, B. (2000). *Human Resource Development and Management*. New Delhi: Vikas Publisher.
5. Harbison, F & Myers, C.A (1968). *Education, Manpower and Economic Growth Strategies of Human Resources Development*. New Delhi: Oxford and IBH Publishing Co.
6. Kaplan, R.S., and Norton, D.P. (1992). *The Balanced Scorecard: Measures that drive performance*. U.S and Canada: Harvard Business Review.
7. Khandelwal, A (1988). *Human Resource Development in Banks*: New Delhi, Oxford & IBH.
8. Morris, D.M. (1979). *Measuring the Condition of the World's Poor The Physical Quality of Life Index*. New York: Overseas Development Council, Pergaman Press.

9. Nadler, L. (1980). *Corporate Human Resources Development Van Nostrand Reinhold*
10. NPC/UNDP(2014): Nepal Human Development Report 2014 Beyond Geography Unlocking Human Potential, GON, NPC, UNDP, Kathmandu
11. Parek, U. and T.V. Rao (1981). *Designing and Planning Human Resource Systems*. New Delhi, Oxford & IBH.
12. Pareek, U. and V. Sisodia (1999). *HRD in the New Millennium*. New Delhi: Tata McGraw -Hill Publishing Co. Ltd.
13. Rao, T.V. and D.P. Pereira (1985). *Recent Experiences in HRD*, New Delhi, Oxford & IBH.
14. Rudrabasavaraj, M.N. (1977). *Executive Development in India*. New Delhi, Himalaya.
15. UNDP (2013). *The Rise of the South Human Progress in a Diverse World. Human Development Report-2013*. New York.