July 8 – August 9, 2002



MONDAY HH VO		
MONDAY, JUL	<u> </u>	
9:00 – 10:30	Course Commencement	PIARA Faculty Class 3A
10:30 – 10:45	Break	
10:45 – 12:00	Role and Components of Investment Evaluation Introduction to the Integrated Financial-Economic-Distributive Appraisal of Projects	PIARA Faculty Class 3A
Readings/ References:	 Chapter "One and Two" in Cost-Benefit Analysis of Investment Decision Manual, Glenn P. Jenkins and Arnold C. Harberger, Cambridge Resources International, 2000. Kuo, "A Conceptual Framework for Economic Evaluation of Industrial Projects," Economic Essays, National Taiwan University, Taipei. 	
12:00 – 13:30	Lunch	
13:30 – 15:00	Analysis of Financial Profiles from Alternative Points of View	Class 3A
Readings/ References:	 "Teaching Note #1: A summary of the Integrated Project Appraisal Methodology: Manila South Water Distribution Project Case," Glenn P. Jenkins and Gangadhar P. Shukla, Cambridge Resources International, Cambridge MA, February 1996. Spreadsheet Tables for Manila South Water Distribution Project Case 	
15:00 – 16:30	Walking Tour of Queen's	
18:00 – 20:30	Opening Reception	Queen's Faculty Club

July 8 – August 9, 2002

TUESDAY, JUI	NE 9	
9:00 – 10:30	Financial Modelling	PIARA Faculty Class 3A
Readings/ References	 Chapters "1 and 3" in The Financial Analyst's Deskbook, Henderson and Maness. 	
10:30 – 10:45	Break	
10:45 – 12:00	Analysis of Cash Flows	PIARA Faculty Class 3A
Readings/ References	 "Chapter Three: Appraisal of Investments: Construction of Financial Profiles for Projects," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins and Arnold C. Harberger, Cambridge Resources International, Cambridge MA, 2000. 	
12:00 – 13:30	Lunch	
13:30 – 19:00	Distribution and Analysis of Case 1: Manila South Water Financial Analysis Case Study: Manila South Water Distribution Project Implication for Private / Public Provision	PIARA Faculty Class 3A
Readings/ References	 Case One, "Potable Water Supply Expansion: Financial Analysis of the Manila South Water Distribution Project". "Will Asian Privatization be Watered Down in Manila?", The Economist, 2-1-1997. 	

July 8 – August 9, 2002

WEEK 1, DAY 3

WEDNESDAY, JULY 10

DUE: 9:00 AM	Case 1	
09:00 – 10:30	Alternative Investment Criteria	PIARA Faculty Class 3A
Readings/ References:	 "Chapter Four: Discounting and Alternative Investment Criteria," in Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, Cambridge MA, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Alternative Investment Criteria (Continued)	PIARA Faculty Class 3A
12:00 – 13:30	Barbeque	
13:30 – 15:00	Participant Presentation of Case 1	Computer lab
15:30 – 19:00	Introduction to Computers and Excel Application	
	Distribution and Analysis of Case 2: Arkati Power Company	
Readings/ References:	 Teaching Note #2: Introduction to Excel Application Case Two: "Alternative Points of View: Arkati Power Company." 	

July 8 – August 9, 2002

THURSDAY, JULY 11		
09:00 - 10:30	Valuation of Existing Assets and Land	PIARA Faculty
Readings/ References:	 "Chapter Three: Appraisal of Investments: Construction of Financial Profiles for Projects," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins and Arnold C. Harberger, Cambridge Resources International, Cambridge MA, 2000. 	
10:30 – 10:45	Break	
10:30 – 12:00	Estimation and Use of Debt Service Capacity Ratios	PIARA Faculty Class 3A
Readings/ References:	 "Chapter Five: Scale, Timing and Inter-Dependencies in Project Selection," in Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, Cambridge MA, 2000. 	PIARA Faculty Class 3A
12:00 – 13:00	Lunch	
13:30 – 19:00	Review and Analysis of Case 2	PIARA Participant Class 3A

July 8 – August 9, 2002

FRIDAY, JULY 12		
9:00 – 10:30	Principles of Microeconomics I	PIARA Faculty Class 3A
Readings/ References:	 Dhakal, D.N S., Lecture Notes on "Foundations of Applied Microeconomics for Investment Appraisal," Cambridge Resources International, 2000. "Chapter Seven: "Objectives and Framework for Economic Investment Appraisal," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	The Importance of Scale and Timing in Project Appraisal	
Readings/ References:	 "Chapter Five: Scale, Timing and Inter-Dependencies in Project Selection," in Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, Cambridge MA, 2000. 	
12:00 – 13:30	Lunch	
13:30 – 15:00	Analysis of Case 2	Computer lab
15:00 – 15:15	Break	
15:15 – 19:30	Analysis of Case 2	Computer Lab
	Formation of Major-Case Appraisal Team (Group Selections)	

July 8 – August 9, 2002

WEEK 1, DAY 6

SATURDAY, JULY 13		
9:00 – 10:30 Readings/ References:	Foundations of Risk and Uncertainty - Lecture Notes	PIARA Faculty
10:30 – 10:45	Break	
10:45 – 12:00	Foundations of Risk and Uncertainty (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
PM	Thousand Islands Boat Cruise	

WEEK 1, DAY 7

SUNDAY, JULY 14		
АМ	Free Time	
12:00 – 13:30	Lunch	
13:30 – 20:30	Completion of Case 2	Computer lab

END OF WEEK ONE

July 8 – August 9, 2002

WEEK 2, DAY 1

MONDAY, JULY 15

DUE: 9:00 AM	Case 2	
9:00 – 10:30	Integration of Movements in Prices, Inflation, and Exchange Rates	PIARA Faculty
Readings/ References:	 "Chapter Six: "The Use of Consistent Prices in the Financial Appraisal," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, 2000. Harberger, A.C., "Project Evaluation," Chapter 2, 1976, pp. 42-48. 	
10:30 – 10:45	Break	
10:45 – 12:00	Integrated Financial Analysis of Investments	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 15:00	Participant Presentation of Case 2	PIARA Participant
15:00 – 15:15 15:15 – 19:00	Break Distribution and Analysis of Case 3:	Computer Lab
	Sensitivity and Risk Analysis of Manila Water Project	
Readings/ References:	 Case Three, "Potable Water Supply Expansion: Sensitivity and Risk Analysis of the Manila South Water Distribution Project". 	

July 8 – August 9, 2002

TUESDAY, JUI	LY 16	
9:00 – 10:30	Risk Analysis and Management	PIARA Faculty
Readings/ References:	 Brigham, "Risk Analysis and the Optimal Capital Budget" Canadian Financial Management, 3rd ed. Holt, Rinehart and Winston of Canada, Chapter 10. Savvakis Savvides, Risk Analysis in Investment Appraisal, Project Appraisal, Volume 9, Number 1, pages 3 – 18, March 1994. 	
10:30 – 10:45	Break	
10:45 – 12:00	Risk Analysis and Management (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 15:00	Introduction to Crystal Ball Software: A Risk Analysis Demonstration Case: "Reforestation Tree Nursery."	PIARA Faculty
Readings/ References	 Teaching Note #3: Sensitivity Analysis, "Using Microsoft Excel's Table Function". Teaching Note #4: Risk Demonstration: "Crystal Ball Risk Analysis Demonstration: Marina Case" User Manual, "Crystal Ball: Version 4,"1996. 	
15:00 – 15:15	Break	
15:15 – 19:00	Analysis of Case 3	Computer Lab
19:00 – 21:00	MC Group Selections and Major Case Meetings	TBA

July 8 – August 9, 2002

WEDNESDAY,	JULY 17	
9:00 – 10:30	Principles of Contracting, Risk Sharing and Risk Reduction	PIARA Faculty
Readings/ References:	 Graham Glenday, "Risk Sharing Contracts in Project Appraisal," Canadian Journal of Program Evaluation, 1996. 	
10:30 – 10:45	Break	
10:45 – 12:00	Principles of Contracting, Risk Sharing and Risk Reduction (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 19:00	Completion of Case 3	Computer Lab

July 8 – August 9, 2002

WEEK 2, DAY 4

THURSDAY, JULY 18

DUE: 9:00 AM	Case 3	
9:00 – 10:30	Principles of Microeconomics II	
Readings/ References:	 Dhakal, D.N S., Lecture Notes on "Foundations of Applied Microeconomics for Investment Appraisal," Cambridge Resources International, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Project Financing	PIARA Faculty
Readings/ References:	 C.W. Beale, Trends in Limited and Non-Recourse Financing, 1984. John M. Niehuss, An Introduction to International Project Financing, 1982. 	
12:00 – 13:30	Lunch	
13:30 – 15:00	Participant Presentation of Case 3	PIARA Participants Computer Lab
15:00 – 15:15	Break	
15:15 – 19:00	Distribution and Discussion of Case 4: Project Financing Negotiation Exercise: Limassol Juice Company (Development of Strategic Positions)	
Readings/ References:	 Case Four: Andreas Andreou, Glenn P. Jenkins, Savvakis Savvides, "Market Competitiveness, Risk and Economic Return: The Case of the Limassol Juice Company." Case Four: "Limassol Juice Company", Negotiation Exercise". 	

July 8 – August 9, 2002

FRIDAY, JULY	FRIDAY, JULY 19		
9:00 – 10:30	Project Financing (Project Financing Components)	PIARA Faculty	
Readings/ References:	 C.W. Beale, Trends in Limited and Non-Recourse Financing, 1984. John M. Niehuss, An Introduction to International Project Financing, 1982. 		
10:30 – 10:45	Break		
10:45 – 12:00	Project Financing: A Case Study	PIARA Faculty	
Readings/ References:	 Crisell, HUB Power – An Innovative Approach To Project Financing, Euromoney Publication Plc., Essex, UK, 1996. Nevitt and Fabozzi, Chapter 10, "Sources of Equity and Debt" in Project Finance, Euro-money Publications, Rochester, UK, 1995. Nevitt and Fabozzi, Chapter 11, "Instruments Used in Project Financing" in Project Finance, Euro-money Publications, Rochester, UK, 1995. Finnerty, John D, Project Financing – Asset-Based Financial Engineering, Chapter 3, John Wiley & Sons, 1996. 		
12:00 – 13:30	Lunch		
13:30 – 15:00	Project Financing Negotiation Exercise: Case 4 (Development of Financing Plan)		
15:00 – 15:15	Break		
15:15 – 17:30	Participant Presentation of Case 4	PIARA Participant	
15:15 – 21:30	Completion of Table of Parameters for Major Case	Computer Lab	

July 8 – August 9, 2002

WEEK 2, DAY 6

SATURDAY, J	ULY 20	
9:00 - 10:30	Preparation of Major Case	PIARA Faculty
10:30 – 10:45	Break	
10:45 – 12:00	Preparation of Major Case	Computer Lab
12:00 – 13:30	Lunch	
PM	Barbeque	

WEEK 2, DAY 7

SUNDAY, JULY 21				
АМ	Free Time			
12:00 – 13:30	Lunch			
13:30 – 21:30	Preparation of Major Case	Computer Lab		

END OF WEEK TWO

July 8 – August 9, 2002

MONDAY, JULY 22		
9:00 – 10:30	Measurement of Economic Prices of Non-traded Goods	PIARA Faculty
Readings/ References:	 "Chapter Eight: "The Measurement of Benefits and Costs in Undistorted Markets," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, 2000. Teaching Note #5: "Estimation of Economic Prices for Non-Traded Goods," prepared by G. P. Jenkins, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Measurement of Economic Prices of Non-traded Goods (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 15:00 Readings/ References: 15:00 – 15:15	Distribution and Review of Case 5: The Economic Appraisal of National Semiconductors - Case Five, "The Economic Appraisal of National Semiconductors, Ltd.: Traded and Non-Traded Goods." Break	PIARA Faculty
15:15 – 21:30	Analysis of Case 5	Computer Lab

July 8 – August 9, 2002

THEODAY HILVOO		
TUESDAY, JUI	LY 23	
9:00 – 10:30	Impacts of Rationing and Application to Evaluation of Electricity Projects	PIARA Faculty
Readings/ References:	 "Chapter Nine: "Measurement of Benefits and Costs in Distorted Markets," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Estimation of Economic Benefits of Water `Sewerage Projects	PIARA Faculty
Readings/ References:	 Jenkins, G.P., Barreix, A. and Marchesini, M., "Restructuring the Water and Sewer Utility in Panama", Harvard University, 2000. 	
12:00 – 13:30	Lunch	
13:30 – 21:30	Analysis of Case 5	Computer Lab

July 8 – August 9, 2002

WEDNESDAY,	JULY 24	
9:00 – 10:30	Economic Prices and Conversion Factors for Traded Goods	PIARA Faculty
Readings/ References:	 "Chapter Ten: "Economic Prices for Traded Goods and the Economic Price of Foreign Exchange," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Economic Prices and Conversion Factors for Traded Goods (Continued)	PIARA Faculty
Readings/ References:	 Teaching Note #6: "Estimation of Economic Prices for Traded Goods and Services," prepared by G. P. Jenkins, 2000. 	
12:00 – 13:30	Lunch	
13:30 – 21:30	Completion of Case 5	Computer Lab

July 8 – August 9, 2002

THURSDAY, JU	JLY 25	
DUE: 9:00 AM	Case 5	
9:00 – 10:30	Economic Cost of Foreign Exchange	PIARA Faculty
Readings/ References:	 "Chapter Ten: "Economic Prices for Traded Goods and the Economic Price of Foreign Exchange," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Participant Presentation of Case 5	Computer Lab
12:00 – 13:30	Lunch	
13:30 – 18:00	Preparation of Major Cases	Computer Lab

July 8 – August 9, 2002

FRIDAY, JULY 26		
9:00 – 10:30	Use of Financial and Economic Analysis for Estimating Distributional Impacts	PIARA Faculty
Readings/ References:	 "Chapter Fourteen: Evaluation of Stakeholder Impacts in Cost-Benefit Analysis," in: Cost-Benefit Analysis of Investment Decisions, Glenn P. Jenkins & Arnold C. Harberger, Cambridge Resources International, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Use of Financial and Economic Analysis for Estimating Distributional Impacts (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 19:00	Distribution and Analysis of Case 6: Jamuna Bridge Project: Setting Policies, and the Allocation of Risks and Rewards	PIARA Faculty
Readings/ References:	 Case Six, "Jamuna Bridge Project: Setting Policies, and the Allocation of Risks and Rewards". "Jamuna Bridge Project: Sensitivity Analysis of Financial Appraisal (Spreadsheet & Sensitivity Tables)." Jenkins, G.P and Shukla, G.P., "Linking East and West Bangladesh," Canadian Journal of Program Evaluation, 1997, pp. 121-145. 	

July 8 – August 9, 2002

WEEK 3, DAY 6

SATURDAY, JULY 27

Day Trip to Ottawa

WEEK 3, DAY 7

SUNDAY, JULY 28

13:30 – 17:00 Completion of Financial Analysis, Major Case

Computer Lab

(Due on MONDAY)

END OF WEEK THREE

July 8 – August 9, 2002

MONDAY, JULY 29		
9:00 – 10:30	Estimation of Transportation Costs and Benefits	PIARA Faculty
Readings/ References:	- Harberger, A.C., "Project Evaluation," Chapter 10, 1976.	
10:30 – 10:45	Break	
10:45 – 12:00	Estimation of Transportation Costs and Benefits (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 15:00	Discussion of Case 6: Jamuna Bridge Project	
15:00 – 15:15	Break	
15:15 – 17:00	Participant Presentation of Case 7	PIARA Participant
17:00 – 21:00	Preparation of Major Cases	Computer Lab

July 8 – August 9, 2002

TUESDAY, JULY 30		
9:00 – 10:30	The Economic Opportunity Cost of Capital	PIARA Faculty
Readings/ References:	 Chapter "Twelve: The Economic Opportunity Cost of Public Funds" in Cost-Benefit Analysis of Investment Decision Manual, Glenn P. Jenkins and Arnold C. Harberger, Cambridge Resources International, 2000. Little, I.M.D., and J.A. Mirrlees. "Project Appraisal and Planning Twenty Years On," Proceedings of the World Bank Annual Conference on Development Economics, 1990. pp. 351-391. Harberger, Arnold C. "On Country Risk and the Social Cost of Foreign Borrowing by Developing Countries," Mimeographed, 1976. 	
10:30 – 10:45	Break	
10:45 – 12:00	The Economic Opportunity Cost of Capital (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 21:00	Preparation of Major Cases	

July 8 – August 9, 2002

WEDNESDAY, HILVOA		
WEDNESDAY,	JULY 31	
9:00 – 10:30	Economic Opportunity Cost of Labor	PIARA Faculty
Readings/ References:	 Chapter "Thirteen: The Economic Opportunity Cost of Labor" in Cost-Benefit Analysis of Investment Decision Manual, Glenn P. Jenkins and Arnold C. Harberger, Cambridge Resources International, 2000. 	
10:30 – 10:45	Break	
10:45 – 12:00	Economic Opportunity Cost of Labor (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 21:00	Preparation of Major Cases	Computer Lab

July 8 – August 9, 2002

THURSDAY, AUGUST 1		
9:00 – 10:30	Integration of Environmental Analysis with Project Appraisal	PIARA Faculty
Readings/ References:	 Asian Development Bank, "Economic Evaluation of Environmental Impacts - A Workbook", Asian Development Bank, Manila, Chapter 7, Appendix G, H and I, 1996 Carson, R.T., "Contingent Valuation: A User's Guide," University of California, 1999. Fay, J.A. and Golomb, D., "Air Pollution Control For Indonesia Fossil-Fuel Power Plants", Cambridge, 1988. 	
10:30 – 10:45	Break	
10:45 – 12:00	Integration of Environmental Analysis with Project Appraisal (Continued)	PIARA Faculty
12:00 – 13:30	Lunch	
13:30 – 15:00	Review for Participant Evaluation	PIARA Faculty
15:00 – 15:15	Break	
15:15 – 17:15	Review for Participant Evaluation (Continued)	PIARA Faculty

July 8 – August 9, 2002

WEEK 4, DAY 5

9:00 – 10:30 Participant Evaluation

10:30 - 11:00 Break

11:00 – 21:30 Preparation of Major Cases

Computer Lab

WEEK 4, DAY 6

SATURDAY, AUGUST 3

9:00 – 12:00 Preparation of Major Cases

Computer Lab

PM Major Case Meetings

TBA

WEEK 4, DAY 7

SUNDAY, AUGUST 4

13:00 – 21:30 Preparation of Major Cases

Computer Lab

Major Case Meetings

TBA

END OF WEEK FOUR

July 8 – August 9, 2002

WEEK 5, DAY 1

MONDAY, AUGUST 5 Computer Lab **Preparation of Major Cases** 9:00 - 21:30

TBA **Major Case Meetings**

WEEK 5, DAY 2

TUESDAY, AUGUST 6		
9:00 – 21:30	Preparation of Major Cases	Computer Lab
	(whole dav)	

WEEK 5 DAY 3

WEEK 3, DAT 3 WEDNESDAY, AUGUST 7				
	(whole day)			
19:00	ALL MAJOR CASES DUE			
	Submit in hard-copy and electronic form:			

- 1. Write-Up
- 2. Spreadsheet
- 3. Presentation

July 8 – August 9, 2002

WEEK 5, DAY 4

THURSDAY, AUGUST 8		
9:00 – 10:30	Presentations of Major Cases	PIARA Participants
10:30 – 10:45	Break	
10:45 – 12:00	Presentations of Major Cases	PIARA Participants
12:00 – 13:30	Lunch	
13:30 – 15:00	Presentations of Major Cases	PIARA Participants
15:00 – 15:15	Break	
15:15 – 17:15	Presentations of Major Cases	PIARA Participants

WEEK 5, DAY 5

FRIDAY, AUGUST 9		
9:00 – 10:30	Where is Project Appraisal ?	
10:30 – 10:45	Break	
10.30 - 10.43	Dieak	
10:45 – 12:00	Where is Project Appraisal? (Continued)	
12:00 – 13:30	Closing Ceremony	

END OF PROGRAM