Institutions
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LUCCA INSTITUTE FOR ADVANCED STUDIES

PSIC - XXIII Edition - I TERM - A.Y. 2007/2008
Pre-course: Quantitative Methods for Social Sciences
Jose Mauricio Prado

Date	Timetable	Hours	Contents	Readings	Lecturer
19 March 2008	9.30-12.30	3	Basics: Sets, Real Numbers, Functions, Graphs , Limits	Chiang (2005), Simon and Blume (1994) , Sydsaeter and Hammond (2005)	Jose Mauricio Prado
20 March 2008	9.30-12.30	3	One-Variable Calculus: Derivatives, Chain Rule	Chiang (2005), Simon and Blume (1994) , Sydsaeter and Hammond (2005)	Jose Mauricio Prado
25 March 2008	15.00-18.00	3	Exercises	Chiang (2005), Simon and Blume (1994) , Sydsaeter and Hammond (2005)	Jose Mauricio Prado
27 March 2008	9.30-12.30	3	Maxima and Minima, Fundamental Theorem of Calculus	Chiang (2005), Simon and Blume (1994) , Sydsaeter and Hammond (2005)	Jose Mauricio Prado
31 March 2008	9.30-12.30	3	Principles of probability and mathematical statistics	Simon and Blume (1994) , Agresti and Finlay (2007)	Jose Mauricio Prado
01 April 2008	9.30-12.30	3	Discrete and Continuous Random Variables	Simon and Blume (1994) , Agresti and Finlay (2007)	Jose Mauricio Prado
02 April 2008	14:30-17:30	3	Extra class for Exercises		Jose Mauricio Prado
07 April 2008	9:30-12:30	3	FINAL EXAM	----------	Jose Mauricio Prado
TOTAL		24			

Reading references:
Fundamental Methods of Mathematical Economics by Alpha Chiang
Mathematics for Economists by Carl Simon and Lawrence Blume
Essential Mathematics for Economic Analysis by Knut Sydsaeter and Peter J. Hammond
Statistical Methods for the Social Sciences by Alan Agresti and Barbara Finlay