



COURSE PRESENTATION FORM – ACADEMIC YEAR 2010/2011

COURSE NAME	Mathematic Prerequisite Course (Mathematics Support Course)
COURSE CODE	75027 (BSc 270) – 70184 (BSc 509)
LECTURER	Federica Andreano
TEACHING ASSISTANTS	None
TEACHING LANGUAGE	English
CREDIT POINTS	Prerequisite for sitting exams of the second semester and enroll for the second year
LECTURE HOURS	36
EXERCISE HOURS	-
TIME SPAN	08.11.2010 - 21.01.2011
TIME TABLE	See Timetable Page
OFFICE HOURS LECTURER	During the lecture time span:
OFFICE HOURS TEACHING ASSISTANT	During the lecture time span:
PREREQUISITES	None
OBJECTIVES	Review of topics of precalculus mathematics.
SYLLABUS	<ul style="list-style-type: none">• Sets of numbers. Highest common divisor and lowest common multiple. Fractions. Decimals. Basic algebraic operations. Laws of powers. Factorization.• Direct and inverse proportionality. Percentages.• Absolute value. Equations and inequalities with absolute values. Linear equations and inequalities. Transposition of formulae.• Quadratic equations and inequalities. Linear systems. Irrational equations and inequalities.• Polynomials. Division of polynomials. Factorization of a polynomial. Ruffini's rule.• The Cartesian plane. Graphs of straight lines and parabolas. Intersection of straight lines and parabolas.• Exponential function and exponential equations and inequalities.• Logarithms. Laws of logarithms. Logarithmic equations and inequalities.• Trigonometry. Polar coordinates.• Basic probability.



FREIE UNIVERSITÄT BOZEN
LIBERA UNIVERSITÀ DI BOLZANO
FREE UNIVERSITY OF BOZEN - BOLZANO

Fakultät für Informatik

Facoltà di Scienze e Tecnologie informatiche

Faculty of Computer Science

TEACHING FORMAT

Frontal lectures.

ASSESSMENT

Compulsory attendance 75 %

READING LIST

- S.Slavin, G. Crisonino, Precalculus
- J.D.Faires, J. DeFranza, Precalculus