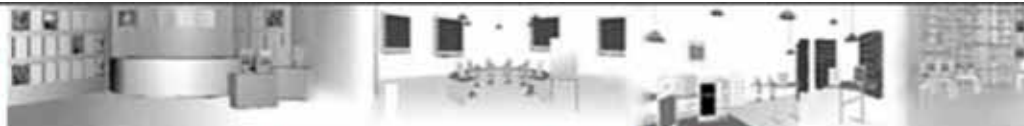


Educational resources and data collection UNINETTUNO model

Raimondo Sepe

Web-based Didactics



Appointed teaching professor

- Syllabus
- Concept map
- Didactic plan
- Exam Guide
- Exam schedule

Learning environments

VIDEOTEQUE

- Video lessons
- Slides

MEDIA LIBRARY

- Books and articles
- CD-ROM
- Bibliography
- Site Links

VIRTUAL LABORATORY

- Laboratory
- Exercises

TUTORING ON LINE

- Chat
- Forum
- Virtual Classroom

TV Programme schedule

Tutor

Degree in Information and communication technologies engineering



Appointed teaching professor

Prof. Alessandro Verra

Curriculum

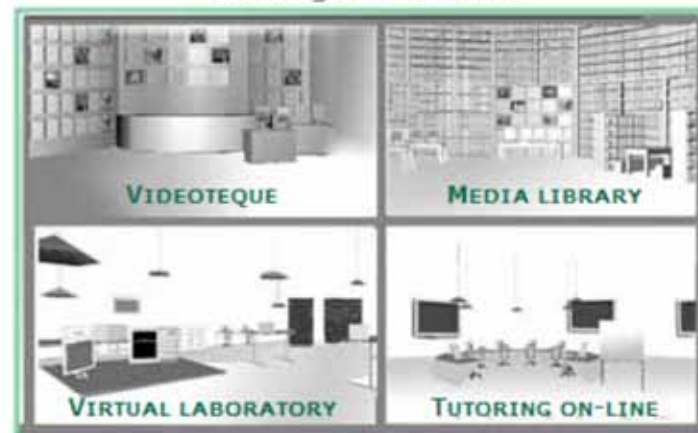
a.verra@uninettuno.universita-tv.net

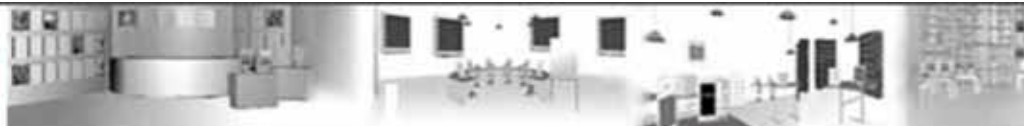
Mathematics 1

- Syllabus
- Concept map
- Didactic plan
- Exam Guide
- Exam schedule



Learning Environments





Appointed teaching professor

Syllabus

Concept map

Didactic plan

Exam Guide

Exam schedule

Learning environments

VIDEOTEQUE

Video lessons

Slides

MEDIA LIBRARY

Books and articles

CD-ROM

Bibliography

Site Links

VIRTUAL LABORATORY

Laboratory

Exercises

TUTORING ON LINE

Chat

Forum

Virtual Classroom

TV Programme schedule

Tutor

Degree in Information and communication technologies engineering

MATHEMATICS 1

Appointed teaching professor: Prof - [Alessandro Verra](#)

Tutors: Emad M. Abo-eldahab

Course description

Introduction to differential and integral calculus.

Prerequisites

Analytic geometry on the plane. Elementary functions. Algebraic, trigonometric, exponential and logarithmic equations and inequalities.

Objectives

Introduction to differential and integral calculus.

Program

- Elementary logic. Sets, relations, functions. Transformations on graphics. Compositions of functions; inverse functions.
- Limits and continuity. Calculus of limits. Discontinuities. Asymptotic. Sequences. Landau symbols. Basic results on limits and on global properties of continuous functions.
- Derivatives and derivation rules. Second derivatives and convexity. Differential calculus results (Fermat, Rolle, Lagrange, Cauchy, De L'Hopital Theorems). Taylor approximations.
- Primitives and definite integrals. Integration rules. Improper integrals.

Book

List of video lessons

- [Lesson n. 1: Introduction](#)
- [Lesson n. 2: Real Numbers](#)

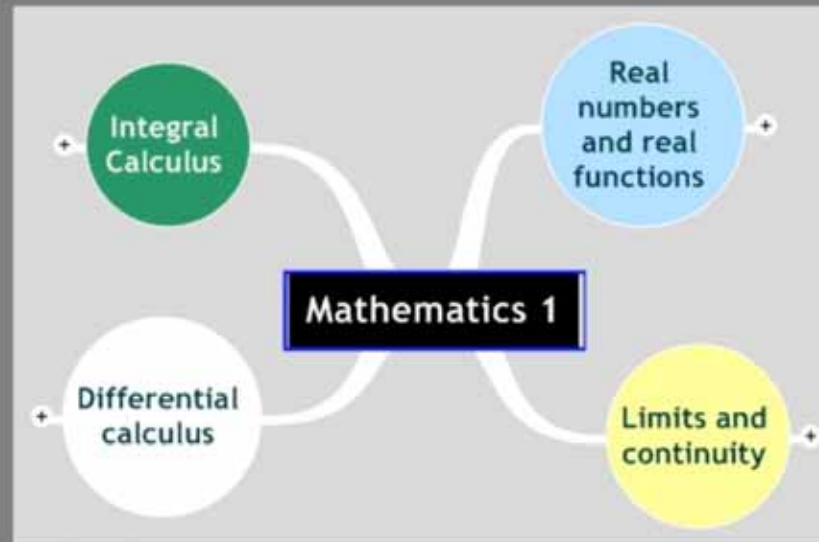


Mathematics 1

[Home](#) | [Table of Contents](#) | [Legenda](#)

Your contact information c.cesarano@uninettunouniversity.net

[< Previous](#) [Next >](#)



engineering

ons and

e functions.
ults on limits

lle, Lagrange,

Click and drag to move map. Click text to follow links or 'Back' in browser.

Learning Environments



Appointed teaching professor

Syllabus

Concept map

Didactic plan

Exam Guide

Exam schedule

Learning environments

VIDEOTEQUE

Video lessons

Slides

MEDIA LIBRARY

Books and articles

CD-ROM

Bibliography

Site Links

VIRTUAL LABORATORY

Laboratory

Exercises

TUTORING ON LINE

Chat

Forum

Virtual Classroom

TV Programme schedule

Tutor

Degree in Information and communication technologies engineering

MATHEMATICS 1

LEARNING ENVIRONMENTS



[Videoteque](#)



[Media library](#)



[Virtual laboratory](#)



[Tutoring on-line](#)



Mathematics 1

LESSON N.5: Basic functions

Appointed teaching professor: Prof - **Alessandro Verra**
 Tutor: Emad M. Abo-eldahab

- Appointed teaching professor
- Syllabus
- Concept map
- Add New Didactic Material
- Didactic plan
- Exam Guide
- Exam schedule

Learning environments

VIDEOTEQUE

- Video lessons
- Slides

MEDIA LIBRARY

- Books and articles
- CD-ROM
- Bibliography
- Site Links

VIRTUAL LABORATORY

- Laboratory
- Exercises

TUTORING ON LINE

- Chat
- Forum
- Virtual Classroom

TV Programme schedule

Tutor

Prof. **Assem Deif**
 Lesson 5: Subjects

- [Power function](#)
- [Exponential function](#)
- ▶ [Trigonometric functions](#)
- [Trigonometric identities](#)
- [Hyperbolic identities](#)



Didactic Materials related to this Lesson

- [Slides](#)
- Books and articles
- CD-Rom
- Bibliography
- Siteography
- Virtual laboratory
- [Exercises](#)

Video player controls: Play, Stop, Previous, Next, Fullscreen, Volume, Progress bar (13.38 / 40.46).
 Riproduzione di 'Lezione 5 Deif': 290 K bit/secondo



Mathematics 1

LESSON N.5: Basic functions

Appointed teaching professor: Prof - **Alessandro Verra**
 Tutor: Emad M. Abo-eldahab

- Appointed teaching professor
- Syllabus
- Concept map
- Add New Didactic Material
- Didactic plan
- Exam Guide
- Exam schedule

Learning environments

VIDEOTEQUE

- Video lessons
- Slides

MEDIA LIBRARY

- Books and articles
- CD-ROM
- Bibliography
- Site Links

VIRTUAL LABORATORY

- Laboratory
- Exercises

TUTORING ON LINE

- Chat
- Forum
- Virtual Classroom

TV Programme schedule

Tutor

Prof. **Assem Deif**
 Lesson 5: Subjects

- [Power function](#)
- [Exponential function](#)
- [Trigonometric functions](#)
- ▶ [Trigonometric identities](#)
- [Hyperbolic identities](#)



Didactic Materials related to this Lesson

- [Slides](#)
- Books and articles
- CD-Rom
- Bibliography
- Siteography
- Virtual laboratory
- [Exercises](#)



Mathematics 1

LESSON N.5: Basic functions

Appointed teaching professor: Prof - **Alessandro Verra**
Tutor: Emad M. Abo-eldahab

- Appointed teaching professor
- Syllabus
- Concept map
- Add New Didactic Material
- Didactic plan
- Exam Guide
- Exam schedule

Learning environments

VIDEOTEQUE

- Video lessons
- Slides

MEDIA LIBRARY

- Books and articles
- CD-ROM
- Bibliography
- Site Links

VIRTUAL LABORATORY

- Laboratory
- Exercises

TUTORING ON LINE

- Chat
- Forum
- Virtual Classroom

TV Programme schedule

Tutor

Prof. **Assem Deif**
Lesson 5: Subjects

- [Power function](#)
- [Exponential function](#)
- [Trigonometric functions](#)
- [Trigonometric identities](#)
- ▶ [Hyperbolic identities](#)



Didactic Materials related to this Lesson

- [Slides](#)
- Books and articles
- CD-Rom
- Bibliography
- Siteography
- Virtual laboratory
- [Exercises](#)



Mathematics 1

LESSON N.5: Basic functions

Appointed teaching professor: Prof - **Alessandro Verra**
 Tutor: Emad M. Abo-eldahab

- Appointed teaching professor
- Syllabus
- Concept map
- Add New Didactic Material
- Didactic plan
- Exam Guide
- Exam schedule

Learning environments

VIDEOTEQUE

- Video lessons
- Slides

MEDIA LIBRARY

- Books and articles
- CD-ROM
- Bibliography
- Site Links

VIRTUAL LABORATORY

- Laboratory
- Exercises

TUTORING ON LINE

- Chat
- Forum
- Virtual Classroom

TV Programme schedule

Tutor

Prof. **Assem Deif**
 Lesson 5: Subjects

- [Power function](#)
- [Exponential function](#)
- [Trigonometric functions](#)
- [Trigonometric identities](#)
- ▶ [Hyperbolic identities](#)



Didactic Materials related to this Lesson

- [Slides](#)
- [Books and articles](#)
- CD-Rom
- Bibliography
- Siteography
- Virtual laboratory
- [Exercises](#)



Appointed teaching professor

Syllabus

Concept map

Didactic plan

Exam Guide

Exam schedule

Learning environments

VIDEOTEQUE

Video lessons

Slides

MEDIA LIBRARY

Books and articles

CD-ROM

Bibliography

Site Links

VIRTUAL LABORATORY

Laboratory

Exercises

TUTORING ON LINE

Chat

Forum

Virtual Classroom

TV Programme schedule

Tutor

tutor

Degree in Information and communication technologies engineering

Mathematics 1

LESSON N.1: Introduction

Appointed teaching professor: Prof - **Alessandro Verra**

Tutor: Emad M. Abo-eldahab

Books and articles

n. 1.1 - [Introduction - additional lesson](#)

Books and articles related to all the course:

n. 26.1 - [text book](#)
 primary text book for calculs 1

Didactic Materials related this Lesson

Video lessons

Slides

Books and articles

CD-Rom

Bibliography

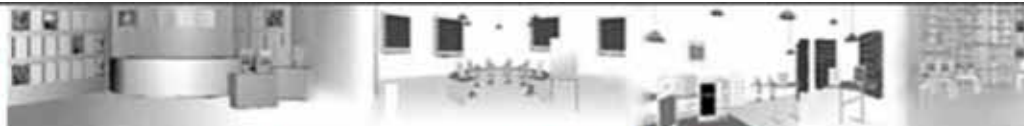
Siteography

Virtual Laboratories

Exercises

Playlist3

39.04 / 40.46



Appointed teaching professor

Syllabus

Concept map

Didactic plan

Exam Guide

Exam schedule

Learning environments

VIDEOTEQUE

Video lessons

Slides

MEDIA LIBRARY

Books and articles

CD-ROM

Bibliography

Site Links

VIRTUAL LABORATORY

Laboratory

Exercises

TUTORING ON LINE

Chat

Forum

Virtual Classroom

TV Programme schedule

Tutor

Tutor

Degree in Information and communication technologies engineering

Mathematics 1

LESSON N.1: Introduction

Appointed teaching professor: Prof - **Alessandro Verra**

Tutor: Emad M. Abo-eldahab

Books and articles

n. 1.1 - [Introduction - additional lesson](#)

Books and articles related to all the course:

n. 26.1 - [text](#)
 primar

**Tables of Integrals from the Text of
 Prof. Assem Deif
 Differential and Integral Calculus**

This Index Contains a table of the most current indefinite as well as definite integrals. They are tabulated according to similarity, that is the ones having common expressions are grouped together. In principal, The reader can deduce all formulae, but organizing them in a table spares the effort of the engineer who wishes to calculate values rather than experimenting each time he is in need. The table is far from being exhaustive and the results tabulated need to add to each an arbitrary constant.

Didactic Materials related this Lesson

[Video lessons](#)

[Slides](#)

[Books and articles](#)

[CD-Rom](#)

[Bibliography](#)

[Siteography](#)

[Virtual Laboratories](#)

[Exercises](#)

Exercises



Appointed teaching professor

Syllabus

Concept map

Didactic plan

Exam Guide

Exam schedule

Learning environments

VIDEOTEQUE

Video lessons

Slides

MEDIA LIBRARY

Books and articles

CD-ROM

Bibliography

Site Links

VIRTUAL LABORATORY

Laboratory

Exercises

TUTORING ON LINE

Chat

Forum

Virtual Classroom

TV Programme schedule

Tutor

Degree in Information and communication technologies engineering

Exercises

Mathematics 1

Appointed teaching professor: Prof - **Alessandro Verra**

Tutor: Emad M. Abo-eldahab

Delivery of exercises

Lesson n. 1: Introduction

Lesson n. 2: Real Numbers

Lesson n. 3: **Real Functions**
n. 3.1 - [exercises for lesson 3](#)

Go to the lesson's materials

Lesson n. 4: **Classifications of functions**
n. 4.1 - [exercises for lesson 4](#)

Go to the lesson's materials

Lesson n. 5: **Basic functions**
n. 5.1 - [exercises for lesson 5](#)

Go to the lesson's materials

Lesson n. 6: **Composite functions**
n. 6.1 - [exercises for lesson 6.DOC](#)

Go to the lesson's materials

Lesson n. 7: Inverse functions

Lesson n. 8: **Limits**
n. 8.1 - [exercises for lesson 8.DOC](#)

Go to the lesson's materials

Lesson n. 9: **Limit theorem**
n. 9.1 - [exercises for lesson 9.DOC](#)

Go to the lesson's materials

Lesson n. 10: Continuity

Lesson n. 11: Differentiation

Lesson n. 12: Derivative of the inverse, composite and



- Appointed teaching professor
- Syllabus
- Concept map
- Didactic plan
- Exam Guide
- Exam schedule
- Learning environments**
- VIDEOTEQUE**
- Video lessons
- Slides
- MEDIA LIBRARY**
- Books and articles
- CD-ROM
- Bibliography
- Site Links
- VIRTUAL LABORATORY**
- Laboratory
- Exercises
- TUTORING ON LINE**
- Chat
- Forum
- Virtual Classroom
- TV Programme schedule
- Tutor

Degree in Information and communication technologies engineering

Mathematics 1

Exercises

Appointed teaching professor: Prof - **Alessandro Verra**
 Tutor: Emad M. Abo-eldahab

- Lesson n. 1: Introduction
- Lesson n. 2: Real Numbers
- Lesson n. 3: **Real Functions**
 n. 3.1 - [exercises for lesson 3](#)
- Lesson n. 4: **Classifications of functions**
 n. 4.1 - [exercises for lesson 4](#)
- Lesson n. 5: **Basic functions**
 n. 5.1 - [exercises for lesson 5](#)
- Lesson n. 6: **Composite functions**
 n. 6.1 - [exercises for lesson 6.DOC](#)
- Lesson n. 7: Inverse functions
- Lesson n. 8: **Limits**
 n. 8.1 - [exercises for lesson 8.DOC](#)
- Lesson n. 9: **Limit theorem**
 n. 9.1 - [exercises for lesson 9.DOC](#)
- Lesson n. 10: Continuity
- Lesson n. 11: Differentiation
- Lesson n. 12: Derivative of the inverse

**Exercises for Lesson 4:
 Classification of Functions**

Problems on classifications of functions:

1. Classify into algebraic and transcendental:

(1) $4x^{1/8}$	(2) $x^{-7/8}$
(3) $\frac{x+3}{2x+1}$	(4) $\tan \sqrt{x}$
(5) nx^2+1	(6) $\sqrt{(x^3+1)^2}$
2. Draw the curve $y = f(x)$ by taking points for $t = 0, \pi/4, \pi/2, \dots$
 $x = \cos t, y = \sin t, 0 \leq t \leq 2\pi$
3. Obtain $y=f(x)$ by cancel t



- Appointed teaching professor
- Syllabus
- Concept map
- Didactic plan
- Exam Guide
- Exam schedule
- Learning environments**
- VIDEOTEQUE**
- Video lessons
- Slides
- MEDIA LIBRARY**
- Books and articles
- CD-ROM
- Bibliography
- Site Links
- VIRTUAL LABORATORY**
- Laboratory
- Exercises
- TUTORING ON LINE**
- Chat
- Forum
- Virtual Classroom
- TV Programme schedule
- Tutor

Degree in Information and communication technologies engineering

Exercises

[Back to exercises](#)

Mathematics 1

Appointed teaching professor: Prof - **Alessandro Verra**
 Tutor: Emad M. Abo-eldahab

From this page you can submit the exercises you made.

Select the first videolesson and the exercise you made from the list at you disposal. If you have already submitted an exercise, this will be tagged by an asterisk (*)

Clicking on the "Browse" button, you will be able to select the file including the exercise you made. Then, select the mark you would give to the exercise you made: this will allow you to compare your own assessments with the tutor's ones and when you are sure that everything is all right, click on "Enter" button.

1. Which exercise did you make?:

2. Select the file to be sent to your tutor:

File:

3. Select the mark you would give yourself for the exercise you made

- (5) $nx^2 + 1$ (6) $\sqrt{(x^3 + 1)^2}$
2. Draw the curve $y = f(x)$ by taking points for $t = 0, n/4, n/2, \dots$
 $x = \cos t, y = \sin t, 0 \leq t \leq 2\pi$
3. Obtain $y = f(x)$ by cancel t

Evaluation and statistic



Appointed teaching professor

Syllabus

Concept map

Didactic plan

Exam Guide

Exam schedule

Learning environments

VIDEOTEQUE

Video lessons

Slides

MEDIA LIBRARY

Books and articles

CD-ROM

Bibliography

Site Links

VIRTUAL LABORATORY

Laboratory

Exercises

TUTORING ON LINE

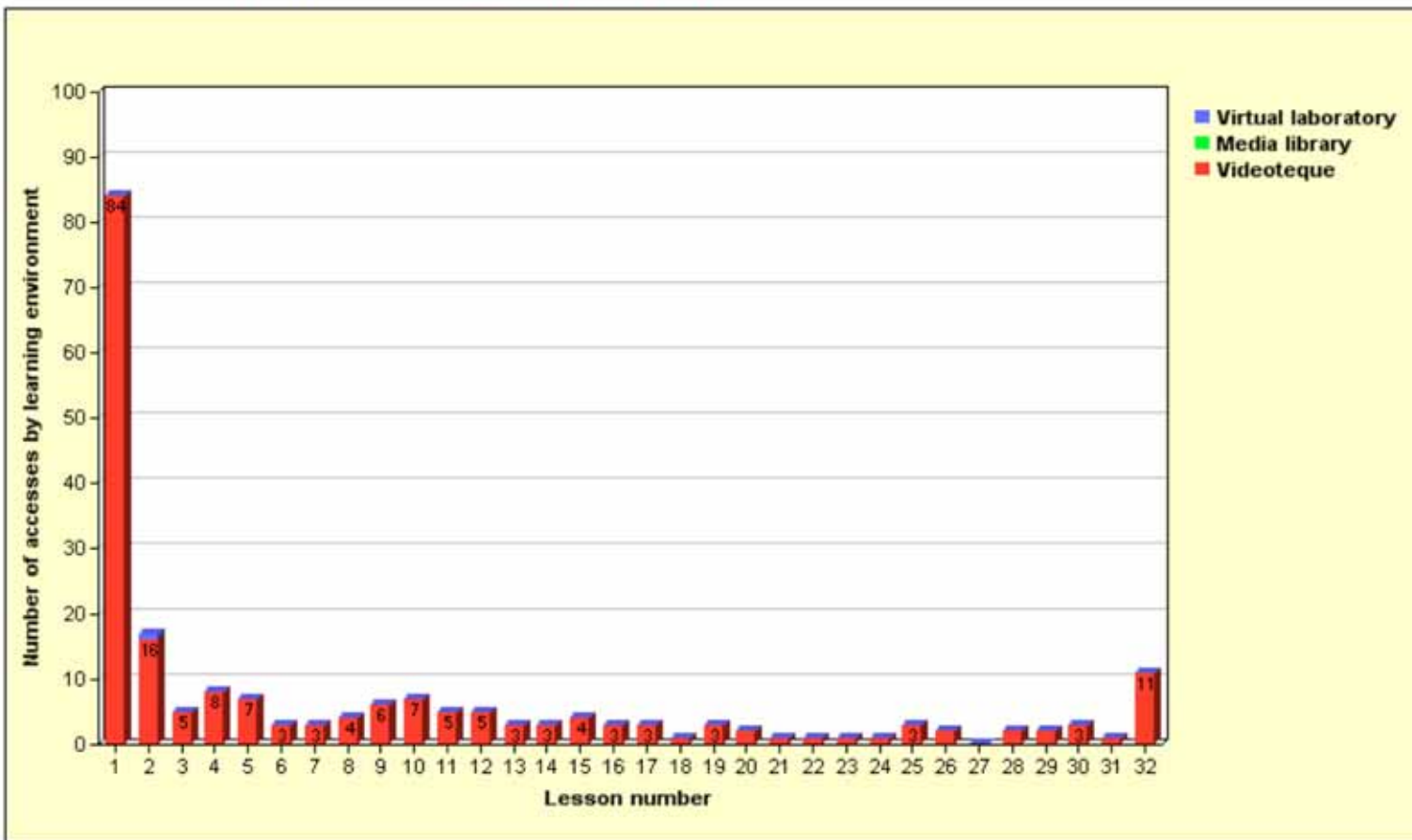
Chat

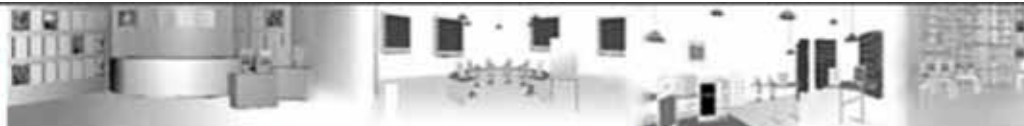
Forum

Virtual Classroom

TV Programme schedule

Tutor





Appointed teaching professor

Syllabus

Concept map

Didactic plan

Exam Guide

Exam schedule

Learning environments

VIDEOTEQUE

Video lessons

Slides

MEDIA LIBRARY

Books and articles

CD-ROM

Bibliography

Site Links

VIRTUAL LABORATORY

Laboratory

Exercises

TUTORING ON LINE

Chat

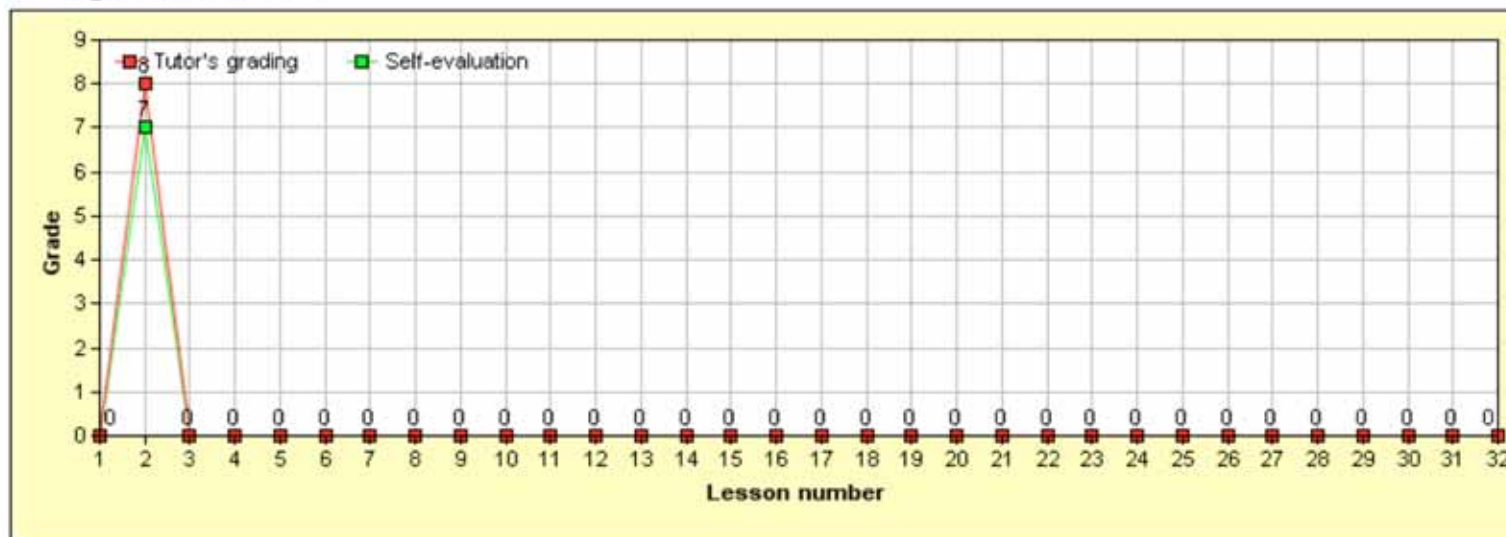
Forum

Virtual Classroom

TV Programme schedule

Tutor

Grading of the exercises



Details table

Lessons (Click here to view the details)	Videoteque		Media library	Virtual laboratory		
	Usage time	Accesses	Accesses	Exercises delivered	Average grading	Average self-evaluation
Lezione n.1: Introduzione. Richiami scolastici elementari.	21:55:37	84	0/0	0/0	0	0
Lezione n.2: Proposizioni logiche ed insiemi	00:26:52	16	0/0	1/2	8	7
Lezione n.3: Applicazioni fra insiemi.	00:02:32	5	0/0	0/2	0	0
Lezione n.4: Insieme prodotto, Corrispondenze e relazioni. Relazione	00:52:29	8	0/0	0/2	0	0



Appointed teaching professor

- Syllabus
- Concept map
- Didactic plan
- Exam Guide
- Exam schedule

Learning environments

VIDEOTEQUE

- Video lessons
- Slides

MEDIA LIBRARY

- Books and articles
- CD-ROM
- Bibliography
- Site Links

VIRTUAL LABORATORY

- Laboratory
- Exercises

TUTORING ON LINE

- Chat
- Forum
- Virtual Classroom

TV Programme schedule

Tutor

Degree in Economics and Business Management

Student statistics details

[Student statistics details](#) > Lesson n.1: Introduzione. Richiami scolastici elementari.

General Mathematics

LESSON N.1: Introduzione. Richiami scolastici elementari.

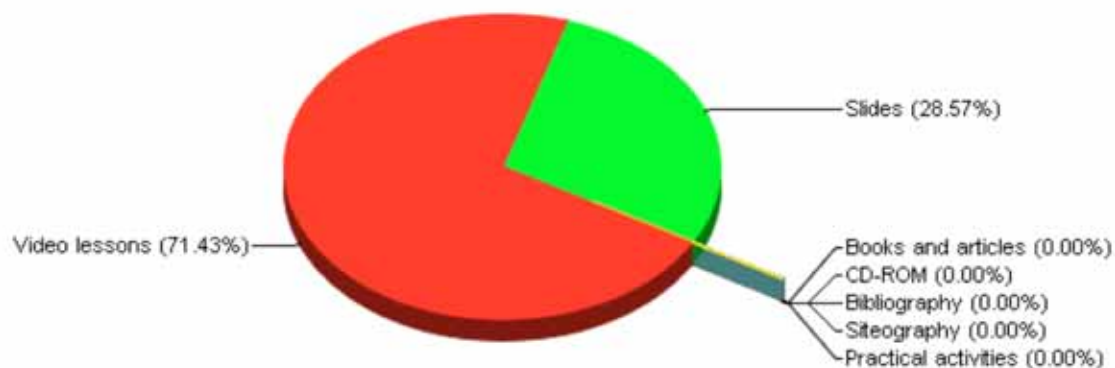
Appointed teaching professor: Prof - **Giorgio Nicoletti**

Tutor: Gianluca Selvi

Student's sheet

Student ID: **0101010101**
 Last name: **Student**
 First Name: **John**
 Classe: **B 06/07**

Distribution of the accesses



Tutoring on line



Tutor

Syllabus
Concept map
Didactic plan
Exam Guide
Agenda
Evaluations and statistics

Learning environments

VIDEOTEQUE

Video lessons
Slides

MEDIA LIBRARY

Books and articles
CD-ROM
Bibliography
Site Links

VIRTUAL LABORATORY

Laboratory
Exercises

TUTORING ON LINE

Chat
Forum
Virtual Classroom

TV Programme schedule

Appointed teaching professor

Chat

[Entrance](#) [Go to available rooms list](#)

ChatRoom - Matematica Generale - Italiano

John Student è appena entrato in Matematica Generale - Italiano

Users list

John Student

Message Window

All Users [colors.none] B I U



Forum :: Matematica Generale - Italiano

Welcome to Forum dell'Università Telematica Internazionale Uninettuno

[Research](#) [Logged as: John Student::Member](#)

[No new private messages](#)

Matematica Generale - Italiano

[Forum dell'Università Telematica Internazionale Uninettuno Home](#) -> [Economia e Gestione delle Imprese](#) -> [Matematica Generale](#)

Forum di discussione per l'insegnamento di Matematica Generale - Corso di Laurea in Economia e Gestione delle Imprese

new topic
Research
Research

Message for page: View:

Message(s) from 1 a 10 di 219 (Totali: 210) [First](#) | [Previous](#) | [Next](#) | [Last](#)

Topic	Author	Date
Ancora sul problema ponderale	Giorgio Nicoletti	17:04 12 Feb 2008
Re: 1 Ancora sul problema ponderale	DONATELLA MEDICI	17:58 15 Feb 2008
Re: 1 Ancora sul problema ponderale	Giorgio Nicoletti	17:40 29 Feb 2008
Un problema da ... ponderare	Giorgio Nicoletti	13:48 21 Jan 2008
Re: Un problema da ... ponderare	DONATELLA MEDICI	20:41 27 Jan 2008

- Tutor
- Syllabus
- Concept map
- Didactic plan
- Exam Guide
- Agenda
- Evaluations and statistics
- Learning environments
- VIDEOTEQUE**
- Video lessons
- Slides
- MEDIA LIBRARY**
- Books and articles
- CD-ROM
- Bibliography
- Site Links
- VIRTUAL LABORATORY**
- Laboratory
- Exercises
- TUTORING ON LINE**
- Chat
- Forum
- Virtual Classroom
- TV Programme schedule
- Appointed teaching professor



- Tutor
- Syllabus
- Concept map
- Didactic plan
- Exam Guide
- Agenda
- Evaluations and statistics
- Learning environments
- VIDEOTEQUE**
 - Video lessons
 - Slides
- MEDIA LIBRARY**
 - Books and articles
 - CD-ROM
 - Bibliography
 - Site Links
- VIRTUAL LABORATORY**
 - Laboratory
 - Exercises
- TUTORING ON LINE**
 - Chat
 - Forum
 - Virtual Classroom
- TV Programme schedule
- Appointed teaching professor

In this environment you can consult tutoring dates for the - chat, videochat, virtual classroom, Forum session- activities that have been scheduled by the tutors, as well as the dates of the exam sessions. In addition, you can also insert new appointments.
 To view the other months, click on the arrows at the left and right at the top of the calendar.

Choose month: Year:

[Enter memo](#) | [Appointment Request](#)

March, 2008						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

www.uninettouniversity.net