



D.R. No.1980/2023

TRAINING COURSE  
IN  
INTRODUCTION TO STRUCTURAL EQUATION  
MODELING. PRINCIPLES AND APPLICATIONS

(It is activated according to Act No.341 of 19 November 1990, Article 6, Sec. 2, point. c)

A.Y. 2023/2024  
(100 hours- 4 ECTS University credits)

II Edition

Directors

Professor Alessandro DE NISCO  
Professor Adamantios DIAMANTOPOULOS

## Objectives

The purpose of this course is to provide participants with technical expertise and the required tools relating to the basic principles of structural equation modeling and the main modeling types that are used in the field of social sciences (for example factor analyses, path analysis, measurement models, *MIMIC* models). Participants will also be able to handle in practice all the stages of the process of specification, validation, and eventual modification of a model, as well as test relationships between latent variables and correctly interpret the results. Finally, participants will be able to use different functionalities of the *Lisrel* program, especially the *Simplis* application module.

## Applicants

The target audience of this course includes doctoral students, both PhD candidates and graduates, research fellows, academic researchers and full professors involved in all the fields of social research - in particular Economic and Management, Psychological and Social Sciences among them - where methods of data analysis based on multivariate statistical techniques are employed. The course is open to applicants with the requirements indicated in the devoted paragraph.

## Learning outcomes

The purpose of this course is to provide skills linked to the use of structural equation modeling by employing the SIMPLIS module of the LISREL program. The course will be made of two modules, to which you can register separately or jointly. They focus on the stages of conceptualization, identification, estimate and assessment of structural equation modeling with 2 different levels of analysis, according to the chosen module.

The modules will also deal with the most relevant decisions researchers have to make, the main issues they face and their solutions.

## Access requirements

The applicants to the course must hold a four-year second level degree achieved before the Ministerial Decree No. 509/99, or a second-cycle/ Master's degree or any other qualification obtained abroad, which is considered valid, according to the current legislation. The participants must hold the access requirements by the time the present call expires, and they must self-certify them, under the Presidential Decree No. 445 of 28 December 2000, and Act No. 183 of 12 November 2011, when they submit their application. Please, note that any false or misleading statement can be punished under the criminal Code and the special legislation on the matter.

## Admission of foreign and Italian students with qualifications obtained abroad

Italian or EU citizens holding qualifications obtained abroad and non-EU citizens who regularly sojourn in Italy must submit their application including their own degree, regularly legalized, accompanied by a declaration of value issued by the Italian representation in the country where they obtained their qualifications with an official translation in languages other than English, French, Spanish, German and Portuguese. As for European qualifications, the Declaration of Value can be replaced by the Diploma Supplement. The Diploma Supplement or the declaration of value

is required to assess the suitability of the candidate's qualifications in relation to the admission to the course.

Besides, non-EU candidates, not sojourning in Italy, holding academic qualifications that are equivalent to the above qualifications, can apply to the course through the "Universitaly" portal of the Ministry of Education and Research.

### Compatibility

Act No. 33 of 12 April 2022 establishes that students may simultaneously enrol in two higher education courses. Thus, they can obtain two qualifications when they attend these types of courses over the same period. In detail, Article 1 (section 1) of this Act states that any student is entitled to enrol simultaneously in two different degree programs, master's degrees or master courses, even in several Universities, Schools or Higher Institutions of Advanced Studies with a special status. However, Section 2 of this Act expressly states that students are not entitled to enrol simultaneously in two different degree programs, master's degrees or master courses belonging to the same class, the same master's course, even in two different institutions.

### Duration and organization

The course is divided in two modules that you can take separately or jointly.

**The basic module** comprises a total of 75 hours, equal to 3 CFUs (ECTS University credits), divided as follows:

- 18 hours of face-to-face teaching delivered in English divided in 3 full days, each lasting 6 hours, from 18 to 20 June 2024
- 57 hours of self-managed independent study.

**The advanced module** comprises a total of 25 hours, equal to 1 CFU (ECTS University credit), divided as follows:

- 6 hours of face-to-face teaching activity in English, in a full day of 6 hours, on 21 June 2024
- 19 hours of self-managed independent study.

### Teaching Schedule

**The course is delivered face-to-face** at the Headquarters of UNINT- *Università degli Studi Internazionali di Roma* (International University of Rome), via Cristoforo Colombo, 200 - Roma.

The teaching schedule is divided as follows:

Modules	SSD (List of subjects)	Course	Credits
Basic Module	SECS-S/01 (Statistics)	Theory and Practice of Structural Equation Modeling	3
Advanced Module	SECS-S/01 (Statistics)	Advanced Structural Equation Modeling	1
		<b>TOTAL ECTS</b>	<b>4</b>

## Training Methodologies

Training methodologies will be based on the combination of theoretical concepts and practical applications in the workshop formula. After an introduction about the basic principles of structural equation modeling, and the premises for the building and validation of an analysis model, the lessons will engage the students in practical cases of structural equation modeling estimation at different levels of complexity, by employing the LISREL program, which the students will use with a trial license. They will employ a guided procedure, which provides them with a thorough overview of each individual stage, and a correct interpretation of the results.

## Attendance

**Compulsory attendance is required**, and an absence rate of no more than 20% of the overall number of hours for each module is allowed.

## Course's Bodies and Teachers

### COURSE DIRECTORS

**Professor Alessandro De Nisco**, Director of the Department of Humanities and International Social Studies at UNINT-Università degli Studi Internazionali di Roma (UNINT-University of International Studies of Rome).

**Professor Adamantios Diamantopoulos**, Chaired Professor of International Marketing at Wien University (Austria).

### TEACHER

Professor Adamantios Diamantopoulos, Ph.D., D.Litt., Professorial Research Fellow at the Department of Marketing & International Business at the University of Vienna (Austria). Prof. Diamantopoulos is also Visiting Professor at the University of Ljubljana (Slovenia) and Senior Fellow at the Dr. Theo and Friedl Schoeller Research Center for Business & Society in Nuremberg (Germany). His main research interests are international marketing and research methodology; he is the author of more than 200 publications in these areas with more than 55,000 citations

## Final test

A learning assessment test is required at the end of each module.

## Qualifications obtained

If the students comply with the administrative requirements, and required attendance, they will be issued with a certificate of participation in the training course of *“Introduction to Structural Equation Modeling: Principles and Applications. Basic Module and/or Advanced Module”* will be issued.

## Admission to the course

Access to the course is reserved to a maximum number of participants. The first 30 candidates who comply with the access requirements mentioned in the concerned paragraph and complete the registration in the time and manner prescribed in the paragraph "Registration and Enrolment" will be entitled to participate. To this end, the closing date and time of the registration procedure for each participant shall prevail. The list of admitted participants is drawn by the course directors, and it will be published on the University website in the concerned section within 10 working days from the start date of classes.

## Registration and Enrolment

Students will be able **to register to the course** from the publication date of the call and **until 16 May 2024**. For his/her **application**, the student will have to:

- connect to the University website (on-line Secretariats), logging in at to the address <https://my.unint.eu/sso>;
- *effettuare la registrazione* (register);
- *immatricolarsi al corso* (enroll in the course);
- print the MAV (payment on notice) and precede to the payment of the registration fees.

Further information on the on-line procedure can be found at the address:

<http://wikistudents.unint.eu>

The application can be:

- sent by mail to the address: [formazione@unint.eu](mailto:formazione@unint.eu) with its attachments, duly scanned;
- sent by registered letter with return receipt to UNINT- *Scuola di alta formazione* (School of Higher Education – Via Carlo Conti Rossini, 38 -00147 -Rome
- delivered by hand at *Scuola di alta formazione* (School of Higher Education), Via Carlo Conti Rossini, 38 - Rome **within and no later than 16 may 2024**

The application must be sent with the following documents:

- 1 passport photo
- A copy of the paid MAV (payment on notice).

Applications without the required documents or incomplete applications will not be taken into account.

For the registration to the course, **the participants are exempt from the tax for the right to study.**

## Course Activation

UNINT University reserves the right to activate the course in its sole discretion. If the course is not activated, tuition fees will be returned.

The course will be only activated if an adequate number of students register.

## Registration fees for the basic module

Tuition fees for the Basic Module are € 576,00, including stamp duty. These fees must be paid in one instalment at the enrolment.

### Reductions

UNINT doctoral students, research fellows, and teaching staff are granted reduced tuition fees, equal to € 446,00, including stamp duty. These tuition fees must be paid in one instalment when they register.

### Registration fees for the advanced module

Tuition fees for the advanced module are € 236,00, including stamp duty. These tuition fees must be paid in one instalment when you register.

### Reductions

UNINT doctoral students, research fellows, and teaching staff pay reduced tuition fees, equal to € 176,00, including stamp duty. These tuition fees must be paid in one instalment when they register.

### Registration fees for the basic module and the advanced module

Tuition fees for the basic and advanced module are € 676,00, including stamp duty. These tuition fees must be paid in one instalment when you register.

### Reductions

UNINT doctoral students, research fellows, and teaching staff pay reduced tuition fees, equal to € 556,00, including stamp duty. These tuition fees must be paid in one instalment when they register.

If a payment is delayed, a compensation for late payment is due, equal to € 25,00 for a payment made within 30 calendar days following the instalment's expiry date, or € 100,00 for a payment exceeding the deadline of 30 solar days following the expiry date of each instalment.

The registration fee will not be returned, except when the course is not activated or the application is rejected.

### Waiver

The participants intending to withdraw from the course at the beginning of the lessons will not be entitled to the refund of the amount paid. The participants intending to withdraw and requesting a statement whereby their waiver is expressly stated are requested to give formal notice through the forms published on the University website. Anything not expressly provided for in this call shall be governed by the University legislation in force.

### CONTACTS DETAILS

#### Scuola alta formazione – UNINT

Università degli Studi Internazionali di Roma

Via Carlo Conti Rossini, 38- 00147 Rome

Phone: +39 06 510.777.400

E-mail: [formazione@unint.eu](mailto:formazione@unint.eu)

Website: [altaformazione.unint.eu](http://altaformazione.unint.eu)