

SOUND ENGINEERING UNIVERSITY COURSE

TENTH EDITION MAY-OCTOBER 2022



UNIMORE

UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

IN COOPERATION WITH



RCF Audio Academy

COURSE OBJECTIVES

The primary goal is to provide engineers with detailed knowledge of the state-of-the-art technologies related to sound, transducers and speaker systems and their applications in the professional market.

The course is organized in modules, taking the participants through a learning process from the basics of electro-acoustics components like transducers, amplifiers and digital processors to the design of a complete audio project based on a real case study.





An international reference project carried out by RCF engineers will be used as a studying guideline during the course.

MAIN TOPICS



1. Environmental Acoustics in open air and indoor spaces including design and simulation methods.
2. Transducers and speaker systems including clusters, arrays and point source configurations.
3. Electronics including circuit analysis, filters, amplifiers and DSP.
4. Sound system design including practical experience in measurements, listening tests and tuning.



The technical content provided in this University course will be compiled by the direct experience of RCF laboratories, which since 1949, have been involved in the design, manufacturing and market application of professional products and systems for theatres, concerts, auditoriums, airports, cruise ships, shopping malls, cinemas and stadia.

ORGANIZATION



Course director:

Prof. Emilio Lorenzani, Department of Science and Methods for Engineering, University of Modena and Reggio Emilia.

E-mail: soundengineering@unimore.it - ☎ +39 0522 522443

Department of Science and Methods for Engineering:

E-mail: didattica.dismi@unimore.it - ☎ +39 0522 522217

www.soundengineering.unimore.it

Date, time and location:

Starting date: May 4th.

The course will be in e-learning mode and will require one week attendance, from October 10th to October 14th, at the RCF Audio Academy in Reggio Emilia, Italy.

Completion date with examination: October 14th.

GENERAL INFORMATION

Contents: The course is comprised of four modules: Environmental acoustics, Transducers and speaker systems, Electronics and Sound systems design. The week spent at the RCF Audio Academy will include practical activities. The complete program is available on www.soundengineering.unimore.it



Language: The course will be held in English.

Number of participants: Max. 40 people, selected by the Course committee on the basis of CV and information provided.

Requirements: Degree or High-School Diploma with experience in the sector, plus good English knowledge.

Costs: Participation fee will be covered by sponsorship of RCF SpA. Enrolment fee to Unimore: 750,00 Euro (including application taxes).

Download the call for application postgraduate course:

English: <https://www.unimore.it/AZdoc/EnglishVersion.pdf>

Italian: <https://www.unimore.it/AZdoc/Bandoingegneriadelsuono1.pdf>



Recognition of ECTS: Students and professionals gain 15 learning credits (called “CFU” in Italy and “ECTS” in Europe) for the Sound Engineering university course, after passed the final test.

Foreign students: The course can be recognized in their home universities with a 1 CFU = 1 ECTS proportion.

Professionals: Each participant should contact his or her association of professional engineers for the recognition of learning credits in the framework of continuing professional development (CPD).

Certificate of attendance: Each student and professional will obtain a certificate of participation.

CANDIDATES' APPLICATIONS

The submission deadline for applications is the 6th of April, at 1.00 p.m.

At the end of the selection process, the Commission will draw up the list of qualified candidates, based on the total score awarded to each of them. Within a maximum of ten days, candidates admitted according to the list of qualifying students, shall enroll in the Post Graduate Course. The submission of applications and final enrollments have to be done using University website: www.esse3.unimore.it.

For any assistance send an email to soundengineering@unimore.it.



HOW TO REACH THE RCF AUDIO ACADEMY



By car: From the A1 highway Reggio Emilia's exit. It will take about 5 minutes.

By train: The Reggio Emilia Railway Station is 6.4 km away from the RCF Audio Academy. It will take about 10 minutes by taxi.

By high speed train: The Reggio Emilia High Speed Railway Station is 1.5 km away from RCF Audio Academy. It will take about 2 minutes by taxi.

By plane:

The nearest airport to Reggio Emilia is:

- Guglielmo Marconi Airport, Bologna (around 70 Km)

other possible airports are:

- Aeroporto Linate, Milano (around 150 Km)
- Aeroporto Malpensa, Milano (around 200 Km)
- Valerio Catullo Airport, Verona (around 120 Km)

ACCOMODATION



- **Hotel Remilia**
Via Danubio 7, Reggio Emilia. remilia.it
- **Hotel Holiday Inn Express**
Via M. Ruini 7, Reggio Emilia. inhotels.com
- **Hotel Mercure Astoria**
Via Nobili 2, Reggio Emilia. mercurehotelastoria.com

** Reservations can be made directly with the hotel.*

How to go from the hotel to RCF Audio Academy

RCF Audio Academy can be reached by:

Public trasport: setaweb.it/re/linee#re1

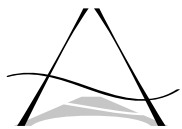
Taxi: ☎ +39 0522.45.25.45

SUGGESTED RESTAURANTS



- **Doppio Malto**
Via Gramsci, 45, Reggio Emilia.
- **Buontempone**
Viale Regina Margherita, 53. Reggio Emilia.
- **Pizzikotto Pizzeria**
Via Gramsci, 52. Reggio Emilia.
- **Nuovo Broletto**
Via Antonio Gramsci 98. Reggio Emilia.
- **Shopping Mall “I Petali”**
Piazzale Atleti Azzurri D’Italia, 5. Reggio Emilia.
- **Supermarket Conad Le Vele**
Viale Regina Margherita, 33. Reggio Emilia.

Lunch during the week will be provided by RCF



RCF Audio Academy

Via Bovio 2/i, 42124 Reggio Emilia, Italy ☎+39 0522 274411

E-mail: audio.academy@rcf.it - www.rcf.it/en_US/online-education

RCF Logistics Coordinator: Fabio Capello ☎+39 0522 274411 - fabio.capello@rcf.it



UNIMORE

UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA

Partita IVA: 00427620364

Department of Science and Methods for Engineering

Via Amendola 2, 42122 Reggio Emilia, Italy ☎+39 0522 522610