



Santa Cecilia National Academy 2022-2023 Advanced Courses

Electronic Music Course – Specialist Module Augmented instruments Teacher Michelangelo Lupone

Presentation

It is aimed at expert students who intend to deepen and specialize on advanced aspects of electronic music, through a monographic course of study. The course specially favors meant to help students who have already developed a creative activity with electronic means and adequately master musical computer science and electro-acoustic technologies. The topics covered change from year to year and make use of innovative studies and international resources in the field of contemporary creation and communication.

The course, lasting one year, will be divided into monthly sessions; each student is entitled to 12 hours of individual lessons, 3 of which of a workshop nature, and to participate in the lessons of the other students of the course in remote mode.

The lessons will be held in the Paolo Ketoff Studio, at the Auditorium "Parco della Musica – Ennio Morricone" in Rome, or in another location within the Santa Cecilia National Academy.

Musicians may be also involved during workshop activities.

At the end of each year of the course, a certificate of attendance will be issued, subject to regular participation in scheduled lessons and educational and artistic activities. It should be noted that the **Electronic Music Course – Specialist Module is an advanced training course**; the completion of the course involves the creation of an original composition and/or experimental thesis on the topic of the course. The course does not include exams and therefore is not aimed at achieving a specific Diploma.

Admission

Admission requirements – Specialist Module

- Age not older than 35 years old;
- Conservatory Diploma (old system) or 1st or 2nd level Diploma in Electronic Music, or Diploma in the Composition Master Course of the Santa Cecilia National Academy, or specific skills as required for the course and specified in the curriculum.

Exceptions to the aforementioned requirements may be allowed, in the presence of proven skills and/or students who present an important previous creative activity in the specific field. The admission, as active students, is subject to passing an admission exam that will take place online, according to the indications in the paragraph "Admission exams".

Applications for admission – Specialist Module

Applications for admission, written online by filling out the form at the following link: <https://santacecilia.it/alta-formazione/form-di-iscrizione-corsi-di-perfezionamento>, they must be received **by October 14, 2022**. The notification sent by the Academy will be considered valid.

The following documents will be attached to the online application:

- Diploma certificate or request for any exception referring to the curriculum;
- Artistic curriculum with the specification of the works made;
- Photocopy of passport or identity document;
- Exam program chosen by the candidate (title of the work presented);
- The payment receipt of the admission fee to the exam.

Program of the admission exam – Specialist address

- Presentation of an electro-acoustic composition;
- Oral assessment of skills in the disciplines of the course.

Candidates must send the score of the work they intend to present for the exam in PDF format; it is also possible to attach any recordings of the same compositions, if available.

The scores and any recordings must be sent via WeTransfer to the e-mail address didattica@santacecilia.it by **October 14, 2022**.

The entrance exams will take place online on **October 25, 2022**; the invitation to the examination with the indication of the platform and the connection mode will be sent by e-mail well in advance. The candidate must ensure that the score presented for admission can be viewed remotely during the exam.

In the presence of a number of suitable candidates exceeding the available places, those who have achieved the highest marks in the entrance exams will be admitted to the course.

Course Summary Outline for the Academic Year 2022 – 2023

Electronic Music Course	Specialist Module – Augmented instruments
Duration	November 2022 – June 2023
Max number of students	4 – four
Access requirements	Conservatory Diploma in Electronic Music (old system); or level I or II Diploma in Electronic Music, or Diploma of the Composition Master Course (ANSC), or proven skills in the disciplines of the course.
Entrance test	Presentation of an electro-acoustic composition with oral verification of skills in the disciplines of the course.
Type of lesson	Individual in person and remote group participation
Treatment	Theory and practice with algorithmic design and implementation
Final test	Original composition and/or experimental thesis on the topic of the course.
Lesson hours per student	12 – twelve
Workshop hours per student – support for the achievement of the original composition and/or the experimental thesis	3 – three hours are held in the Paolo Ketoff Studio, also with possible instrumentalists, or in another location set up for the purpose.
Study plan – Topics – Year 2022-23	
Acoustic and vibrational analysis of musical instruments	
Sensor detection and musical applications	
Extended playing techniques	
Algorithmic design and implementation	
Original composition and/or experimental thesis	
Reference bibliography – Year 2022-23	
Neville H. Fletcher, Thomas D. Rossing, <i>The Physics of Musical Instruments</i> , Springer-Verlag, New York, 1991	
Harry F. Olson, <i>Music, Physics and Engineering</i> , Dover Publication, New York, 1967	
Arthur H. Benade, <i>Fundamentals of Musical Acoustics</i> , Dover Publications, 1990	
Renato Spagnolo, <i>Acustica</i> , UTET, Novara, 2015	
Lecture notes by the teacher	

N.B. Students must have a computer of class i7 or higher to do the music design and production work. The working platforms used in the course are Pure Data, Max/MSP, Faust.

References to programming languages (C, C++, Python), to the Linux operating system and to systems based on Advanced RISC Machines (ARM) technology are considered and possibly applied based on the specifications of the original Composition and/or of the experimental thesis.

Fees Examination and attendance fees

- € 50,00 entrance examination;
- € 1.500,00 yearly attendance.

Students in arrears with their course tuition and examination fees will not be admitted to lessons or to examinations.

All payments, specifying as reason “**Electronic Music Course – Specialist Module**” may be made via:

- **postal account payment**
no. 30406003, made out to Accademia Nazionale di Santa Cecilia – *Fondazione*
- **wire transfer**
c/c n. 9872, made out to Accademia Nazionale di Santa Cecilia – *Fondazione*
Banca Nazionale del Lavoro (BNL) Agenzia n. 6340 di Roma, Via del Corso, 471
IBAN: IT31 I 010 0503 2400 0000 0009 872
SWIFT: BIC BNL IITRR
- **Paypal** on Fondazione's website at this link <https://santacecilia.it/alta-formazione/paypal>

The receipt of the payment for attendance must be sent to the academic office (segreteria didattica) by no later than 15 days after the date of admission to the course. Students may pay the attendance fee in two instalments of equal amount, the second of which is to be paid by no later than the 1st March.

Withdrawal from the course shall not entitle the student to be refunded what was paid.

**Information and
Contacts**

Secretary's Office

National Academy of Santa Cecilia - Foundation

Via Vittoria, 6 – 00187 Roma

Tel: +39 0632817.348 – 321 – 305

Fax: +39 0632817366

E-mail: didattica@santacecilia.it

All requests and communications to the Didactic Secretary must be sent by e-mail, taking time to specify the subject in order to allow for quicker responses from requests.