Curriculum Handbook
Master of Music – Sonology

Sonology
Audio Communication & Sonology

Academic Year 2022/23

Royal Conservatoire The Hague

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"… each sound, each structure is a promise …" – Gottfried Michael Koenig

Sonology is the field of study involving experimentation with electroacoustic music, computer music and sound art. The pioneers of the age of electronic music include figures such as Edgard Varèse, Pierre Schaeffer, Karlheinz Stockhausen and Iannis Xenakis: composers with an inquiring mind who dared to move off the beaten track.

Instead of composing with sounds, as is generally the case in instrumental music, in sonology the sound itself is composed in such a way that it gives expression to musical form. This can take place on the basis of the physical principles of sound, on the basis of perception or on the basis of purely compositional ideas.

The explosive pace of advances in the field of (computer) technology and electronics is also creating new possibilities for music and composition. Sonologists investigate these possibilities and add new elements to the musical domain. We are not bound by conventions or stylistic dogmas, but stretch the limits of the genre. It is an important role that we play and one that is integral to the world of new music.

The Institute of Sonology is one of the conservatoire's Creative Departments, with an extensive network of partners that includes the Groupe de Recherches Musicales (GRM) in Paris, the Netherlands Music Institute (NMI), Studio LOOS in The Hague, the Technische Universität Berlin and the Game of Life Foundation in The Hague.

As a student in the two-year Master in Sonology (which is taught in English) you will carry out an independent research project. You can enrol for the master's programme if you have obtained a Bachelor of Music in Sonology or an equivalent degree in another course. However, the master's programme is not an extension of the bachelor's programme. Many students in the Master of Music in Sonology programme hold a bachelor's degree in subjects such as composition, computer science, musicology or graduated as performing musicians.

During your master's programme you will write a thesis, which will document your project and place it in a wider context. This means that, in addition to your artistic activities, you will be writing extensively under the guidance of a mentor from the Institute of Sonology. We have produced a thesis style guide and you will be able to consult earlier studies. We also maintain a close relationship with our alumni, some of whom remain attached to the institute or continue their research as a PhD student elsewhere. Many graduates of the Sonology master's programme pursue a career as a composer, an artist, a sound designer, a computer programmer, a teacher, or combinations of these. A relatively large proportion of graduated students go on to follow a PhD programme.

Since 2014, we also offer a Double Degree master's programme in Audio Communication & Sonology in association with the Technische Universität Berlin.

More information about courses and the department can be found on sonology.org

This Curriculum Handbook aims to provide you with all necessary information related to the curricula and courses of the master's programme in Sonology. After programme objectives and a schematic overview of the curricula, you will find descriptions of all courses, including learning goals (called 'objectives') and assessment criteria. We would advise you to also read the Royal Conservatoire's Study Guide, which includes the Education and Examination Regulations (EER).

Below you will find a set of requirements which we call programme objectives. These are the minimum requirements that you need to meet in order to obtain a Master of Music degree from the Royal Conservatoire. Our programme objectives are based on the AEC Learning Outcomes (2017)[1], an international qualification framework developed by the European Association of Conservatoires (AEC), which is based on a broad consultation with institutions all over Europe and experts from the music profession. The objectives have been adapted where necessary to fit the study programme of our MMus in Sonology.

The master programme objectives are divided in three categories: A) practical outcomes, B) theoretical outcomes and C) generic outcomes – and are numbered for ease of reference. The AEC Learning Outcomes refer to three cycles: 1st cycle (Bachelor), 2nd cycle (Master) and 3rd cycle (Doctoral). Therefore all master objectives start with the number 2. In the course descriptions, the field 'programme objectives' refers to these codes, e.g. 2.A.1, 2.B.5, 2.C.10. This means that the course contributes to obtaining the skills and knowledge described in those objectives. There may be several courses contributing to the same objectives.

At the end of the Master of Music in Sonology programme, you:

A. Practical (skills-based) outcomes

2.A.1. Create and realise music, and/or research outputs in related areas, to a high professional level, expressing your own concepts, involving some combination of artistic, scientific and programming skills, and reflecting a well-developed and individual approach to the issues they involve.

2.A.2. Evidence sophisticated craft skills in relation to the professional field of electronic music.

2.A.3. Demonstrate breadth and/or depth of specialist knowledge in relation to your area of study.

2.A.4. Demonstrate ability to create, realise and express your own artistic concepts and/or research, ensuring that any areas of relative weakness in relation to the necessary skills have been addressed.

2.A.5. Play a leading role in ensemble and/or other collaborative activity.

2.A.6. Demonstrate a high level of improvisational fluency in a research project where this is relevant.

2.A.7. Evidence ability to develop, research and evaluate ideas, concepts and processes as appropriate within your area of study, and/or your own artistic practice.

2.A.8. Demonstrate excellent command in a range of communication modes associated with your practice and its presentation to both specialist and non-specialist audiences.

2.A.9. Exhibit competence in technological utilisation and application, especially with regard to the technical setup for live performances involving many different live applications of electronic/digital technology.

2.A.10. Take responsibility for the engagement between context, audience and material, projecting your ideas fluently and with confidence in a wide variety of performance settings.

2.A.12. Engage with a significant level of critical self-reflection in relation to your own personal learning style, skills and strategies.

2.A.13. Evidence ability to translate theoretical knowledge into practical activities.

2.A.14. Demonstrate sensitivity with regard to the subjects of your research, respecting diversity in the characteristics of individuals and contexts, and considering the ethical dimensions of your work where appropriate.

2.A.15. In relation to relevant self-identified professional pathways or opportunities, demonstrate an understanding of the working field, and identify and formulate strategies for developing engagement with them.

B. Theoretical (knowledge-based) outcomes

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[1] https://www.aec-music.eu/userfiles/File/customfiles/aec-learning-outcomes-2017-english_20171218113003.pdf

2.B.1. Demonstrate sophisticated knowledge of practices, languages, forms, materials, technologies and techniques in music relevant to your core and, as appropriate, related disciplines, and their associated texts, resources and concepts.

2.B.2. Exhibit comprehensive knowledge of repertoire and literature within your area of study.

2.B.3. Develop and extend your knowledge of the theoretical and historical contexts in which (principally electroacoustic) music is practiced and presented.

2.B.4. Exhibit knowledge of relevant musical styles and a sophisticated and critical understanding of their associated performing traditions.

2.B.6. Exhibit sophisticated and embodied knowledge of improvisational patterns and processes, and the ability to apply these freely in a variety of contexts, where this is relevant to your research project.

2.B.7. Evidence understanding of a range of sophisticated investigative techniques, enabling the application of selected approaches to develop, frame, research and evaluate ideas, concepts and processes as appropriate within your area of study and/or your artistic practice.

2.B.8. Identify and utilise relevant literature and/or other resources as appropriate to inform your practice and development within your area of study.

2.B.9. Identify and employ advanced research, study, communication and presentation techniques to independently develop and deliver an extended and/or in-depth project which may combine artistic and research-related aspects.

2.B.10. Utilise specific technologies to enable the creation, dissemination and/or performance of music appropriate to your area of study and/or your artistic practice.

2.B.12. Demonstrate a thorough understanding of the role of the musician and/or researcher in contemporary society, researching, engaging with and reflecting upon specific relevant professional working environments and contexts.

C.   Generic outcomes

2.C.1. Exhibit sophisticated skills in critical thinking and critical awareness.

2.C.2. Demonstrate independence in all aspects of learning, social interaction, and opportunity identification, by creating or identifying new possibilities for music and composition within the field of (computer) technology and electronics, and by adding new elements to the musical domain.

2.C.3. Exhibit confidence and competence in the use of a range of communication and social skills as appropriate to the context.

2.C.4. Exhibit appropriate leadership, teamwork, negotiation and/or coordination skills, taking account of a variety of artistic and/or technological contexts.

2.C.5. Evidence ability to integrate knowledge drawn from a variety of contexts or perspectives.

2.C.6. Demonstrate independent thought supported by rational and evidence-based application of knowledge in undertaking tasks that may be:
• extended and complex
• in new or unfamiliar contexts
• based upon incomplete or limited information.

2.C.7. Recognise the interrelationship between theory and practice, and apply such knowledge to underpin and strengthen your own artistic development.

2.C.8. Demonstrate ability and willingness to communicate knowledge and ideas involving some combination of the written word, musical notation, fixed-media composition, performance and/ or other musical outputs (recordings, etc.).

2.C.9. Consistently analyse, interrogate, utilise, and respond creatively and appropriately to verbal and/or written feedback, ideas and impetus from others.

2.C.10. Initiate activities or projects, and work with others through interaction or collaboration.

2.C.11. Exhibit sophisticated and appropriate public presentation skills in all aspects of your practice and activity.

2.C.12. Exhibit a sensitivity to the learning methods and needs of others and ability to motivate and facilitate creativity and learning.

2.C.13. Engage with individuals and/or groups as appropriate and in relation to both your own, and a wider variety of, cultural contexts.

2.C.14. Engage and share information with specialist and non-specialist musicians and audiences across a broad spectrum of society, demonstrating awareness of individual and/or group reactions to such information and the ability to respond appropriately.

2.C.15. Exhibit confidence in using your own psychological understanding – and your sense of your own wellbeing, and that of others – to underpin decision making in a variety of situations associated with professional practice.

2.C.16. Demonstrate a positive attitude towards, willingness to engage and interest in, on-going (life-long) personal and professional development.

CURRICULUM OVERVIEWS

SONOLOGY

Institute of Sonology - Royal Conservatoire			
code	**Sonology**	**Year 1**	**Year 2**
	Master of Music in Sonology 2022-2023		
KC-M-SO-	**Artistic Development and Research**		
COZ	Composition/Performance/Research	32	36
RS	Sonology Research Seminar Participation	3	3
RSP	Sonology Research Seminar Presentation	6	6
	Subtotal	**41**	**45**
KC-M-SO-	**Academic Skills**		
COLQ	Colloquium Participation	2	2
CP	Colloquium Presentation	7	7
WS	Writing Skills	4	
	Subtotal	**13**	**9**
KC-M-SO-	**Professional Integration**		
GLT	Sound Engineering in Electronic Music	4	4
EP	Overview Own Projects	2	2
	Subtotal	**6**	**6**
	Total per year	**60**	**60**
	Total		**120**
This overview is subject to change as the Royal Conservatoire monitors its curricula on an annual basis.			

AUDIO COMMUNICATION & SONOLOGY

code	Institute of Sonology - Royal Conservatoire Audiokommunikation - Technische Universität Berlin		
	Sonology - Audio Communication & Sonology	**Year 1**	**Year 2**
	Master of Music in Sonology 2022-2023		
KC-M-SO-	**Artistic Development and Research**		
COZ	Composition/Performance/Research		36
RS	Sonology Research Seminar Participation		3
RSP	Sonology Research Seminar Presentation		6
	Subtotal		**45**
KC-M-SO-	**Academic Skills**		
COLQ	Colloquium Participation		2
CP	Colloquium Presentation		7
	Subtotal		**9**
KC-M-SO-	**Professional Integration**		
GLT	Sound Engineering in Electronic Music		4
EP	Overview Own Projects		2
	Subtotal		**6**
	Total per year	**60**	**60**
	Total		**120**
This overview is subject to change as the Royal Conservatoire monitors its curricula on an annual basis.			

(Technische Universität Berlin — vertical label spanning Year 1 column)

A detailed curriculum overview of the Double Degree Masters' programme can be found on:
https://www.ak.tu-berlin.de/menue/lehre/double_degree_audio_communication_and_sonology/curriculum_overview/

The course descriptions of the second year (semester 3 & 4 of the Double Degree Masters' programme) can be found in this handbook:

KC-M-SO-COZ: Composition / Performance / Research

KC-M-SO-RS: Sonology Research Seminar Participation

KC-M-SO-RSP: Research Seminar Presentation

KC-M-SO-COLQ: Colloquium Participation

KC-M-SO-CP: Colloquium Presentation

KC-M-SO-GLT: Sound Engineering in Electronic Music 2

KC-M-SO-EP: Overview Own Projects

ARTISTIC DEVELOPMENT AND RESEARCH

COMPOSITION/PERFORMANCE/RESEARCH

Course title:	**Composition/Performance/Research**
Osiris course code:	KC-M-SO-COZ
Course content:	As a student, you are offered an environment in which an individual research project is realised. This activity takes place under the supervision of a mentor, who challenges you to explore new, unknown and broader contexts in your work. In this way your project is developed and documented so that the results may be presented in concerts, conferences or publications on an international level. The new knowledge brought into being in the course of realising the research project must be relevant within the broader context of the field of electroacoustic music and sound art. The sonologist moves in the field of electroacoustic music and computer music, in both practical and theoretical directions. 'Practical' means that instead of composing *with* sounds, as is generally the case in instrumental music, in sonology the sound itself is composed in such a way that it gives expression to musical form. This can take place on the basis of the physical principles of sound, on the basis of perception or on the basis of purely compositional ideas. 'Theoretical' means that research is carried out in this same area, resulting in written texts or computer programs. You have the opportunity to immerse yourself more deeply in an area related to your bachelor's education, making use of your musical abilities, knowledge and insight. During the two-year programme, you work on a thesis in which the project is documented and placed in a broader context. The conclusions of the research and the fundamentals on which it is based should here be formulated so as to be clear to specialists in the discipline. This written work, as well as the student's artistic work, is supervised by a member of the Sonology faculty (the mentor). The well-equipped studios of the Institute of Sonology provide students with the opportunity to produce and record their projects at a professional level. Sound playback in these studios varies between four and eight channels, as well as spatial sound projection using wave Wave Field Synthesis (WFS). There is a studio for live electronic music, and a historic studio principally equipped with analogue equipment. Apart from these facilities, students may make use of special equipment for working on location. The Electronics Workshop (EWP) offers the facility to design and build equipment for specific purposes.
Objectives:	At the end of this course, you: ▪ are able to develop a research project and document this in such a way that the results may be presented in concerts, conferences or publications on an advanced and international level; ▪ are able to create new knowledge which shows relevance within the broader context of the field of electroacoustic music and sound art; ▪ are able to write a thesis in which the project is documented and placed in a broader context. ▪ are able to apply the aforementioned knowledge and abilities (in addition to individual activities) in areas such as:

	- participation in ensembles, such as the Sonology Electroacoustic Ensemble, an ensemble for improvised music in which instrumentalists from other musical domains are also active; - participation in the production team for professional Sonology concert presentations; - working with the experimental Wave Field Synthesis sound projection technique; - composing and performing works for combinations of electronics and traditional instruments, in collaboration with performers from other fields. ▪ have a clear awareness of current (international) developments in the arts in general, and electroacoustic music and sound art in particular, and are able to position yourself and your work in relation to those developments. ▪ can act as your own teacher as a reflective practitioner by being able to assess and evaluate the quality of your work, keep this quality up-to-date and develop it further by continuing to learn independently.
Programme objectives:	2.A.1. 2.A.4, 2.A.5, 2.A.7, 2.A.10, 2.A.12, 2.A.13 2.B.1, 2.B.2, 2.B.3, 2.B.6, 2.B.9, 2.B.10, 2.B.12 2.C.1, 2.C.2, 2.C.7, 2.C.8, 2.C.10, 2.C.16
Level:	Master I–II
Duration:	Average of one hour per two weeks
Prior qualifications/ prerequisites:	-
Teachers:	Richard Barrett, Justin Bennett, Raviv Ganchrow, Bjarni Gunnarsson, Johan van Kreij, Peter Pabon, Gabriel Paiuk, Kees Tazelaar.
Credits:	Master I: 32 ECTS, master II: 36 ECTS
Literature:	To be agreed upon with the mentor(s)
Work form:	Individual lessons
Assessment:	At the end of the first year of the master's programme, each student has an individual interview with a faculty committee, in which the progress of their research project, as well as sketches for the thesis, are discussed. At the end of the second year, the artistic results of the examination candidates are jointly presented during a three-to-five-day mini-festival which takes place either in the concert halls of the conservatoire or in an outside venue. The thesis is also an important part of the final presentation. It is handed in one month before the final presentation, and defended during a one-hour oral examination to a committee of faculty members and an international external examiner, taking place after the presentation of the student's artistic results or, in some cases, exclusively on the basis of the thesis. The conclusions of the research and the fundamentals on which it is based should be formulated in the thesis so as to be clear to specialists in the discipline. Assessment criteria: • originality, relevance, writing quality and thoroughness in the research thesis • artistic quality, technical skills and originality in the musical components • level of command of techniques (e.g. programming, studio skills) developed in order to realise the research outputs • ability to defend the combination thesis/artistic work in the oral examination

	Please see the [Assessment Criteria MMus Sonology](#) in Appendix 1 for a complete overview of the assessment criteria and rubric of the Final Presentation.
Grading system:	Master I: Numeric, master II: Numeric (as part of the final presentation)
Language:	English
Schedule, time:	To be agreed upon with mentor(s).
Venue:	A concert hall (final presentation) and one or more Sonology studios (meetings with the mentor(s)
Information:	Kees Tazelaar (k.tazelaar@koncon.nl), Richard Barrett (r.barrett@koncon.nl)

SONOLOGY RESEARCH SEMINAR PARTICIPATION

Course title:	**Sonology Research Seminar Participation**
Osiris course code:	KC-M-SO-RS
Course content:	All master's students, as well as four or five Sonology faculty members, take part in the Research Seminar, a two-hour meeting of which 20 take place throughout the academic year. Each student, in both their first and second year, gives a presentation of their work, followed by a discussion of around the same duration. The seminars are coordinated by faculty member Gabriel Paiuk, who contacts you two weeks in advance of your presentation. You are asked to provide an abstract and a supporting article, video and/or audio recording. All participants receive invitations for the seminars, with which the material provided by the presenter is distributed. The Research Seminar is open only to Sonology master's students, and its character is to a certain extent informal. The Research Seminar is an important moment for the evaluation of your progress, about which the teachers of the Master of Music in Sonology hold regular consultations. Apart from the content itself, they assess the extent to which you have been able to communicate the context of your subject, the research findings and conclusions to fellow specialists.
Objectives:	At the end of this course, you: ▪ are able to formulate an aspect of your research project and the fundamentals on which it is based; ▪ are able to communicate the context of your subject, the research findings and conclusions to specialists in the field of electroacoustic music; ▪ are able to incorporate the outcome of feedback from others in the further development of your research activities; ▪ are able to discuss research subjects in the field of electroacoustic music on a professional level.
Programme objectives:	2.A.3, 2.C.3, 2.C.5, 2.C.6, 2.C.9, 2.C.13
Level:	Master I–II
Duration:	20 lessons per academic year
Prior qualifications/ prerequisites:	-

Teachers:	Richard Barrett, Raviv Ganchrow, Ji Youn Kang, Fani Konstantinidou, Johan van Kreij, Peter Pabon, Gabriel Paiuk, Kees Tazelaar
Credits:	Participation: 3 ECTS per academic year Presentation: 6 ECTS per academic year
Literature:	To be agreed upon with the main subject teacher
Work form:	Group lesson
Assessment:	Seminar participation: attendance. Seminar presentation: the teachers who attend the Research Seminar have a short discussion afterwards based on the assessment criteria. Assessment criteria: • originality and relevance of the research • ability to present provisional results of the research coherently, concisely, clearly and fluently at a professional level • ability to discuss the ideas, to address questions arising from them in the course of the seminar and where appropriate to integrate the results of the discussion into the research
Grading system:	Seminar participation: Participation sufficient/insufficient Seminar presentation: Pass/Fail
Language:	English
Schedule, time, venue:	See ASIMUT schedule
Information:	Gabiel Paiuk (g.paiuk@koncon.nl)

SONOLOGY RESEARCH SEMINAR PRESENTATION

Course title:	**Sonology Research Seminar Presentation**
Osiris course code:	KC-M-SO-RSP
Course content:	All master's students, as well as four or five Sonology faculty members, take part in the Research Seminar, a two-hour meeting of which 20 take place throughout the academic year. Each student, in both their first and second year, gives a presentation of their work, followed by a discussion of around the same duration. The seminars are coordinated by faculty member Gabriel Paiuk, who contacts you two weeks in advance of your presentation. You are asked to provide an abstract and a supporting article, video and/or audio recording. All participants receive invitations for the seminars, with which the material provided by the presenter is distributed. The Research Seminar is open only to Sonology master's students, and its character is to a certain extent informal. The Research Seminar is an important moment for the evaluation of your progress, about which the teachers of the Master of Music in Sonology hold regular consultations. Apart from the content itself, they assess the extent to which you have been able to communicate the context of your subject, the research findings and conclusions to fellow specialists.
Objectives:	At the end of this course, you:

	- are able to formulate an aspect of your research project and the fundamentals on which it is based; - are able to communicate the context of your subject, the research findings and conclusions to specialists in the field of electroacoustic music; - are able to incorporate the outcome of feedback from others in the further development of your research activities; - are able to discuss research subjects in the field of electroacoustic music on a professional level.
Programme objectives:	2.A.3, 2.C.3, 2.C.5, 2.C.6, 2.C.9, 2.C.13
Level:	Master I–II
Duration:	20 lessons per academic year
Prior qualifications/ prerequisites:	-
Teachers:	Richard Barrett, Raviv Ganchrow, Ji Youn Kang, Fani Konstantinidou, Johan van Kreij, Peter Pabon, Gabriel Paiuk, Kees Tazelaar
Credits:	Participation: 3 ECTS per academic year Presentation: 6 ECTS per academic year
Literature:	To be agreed upon with the main subject teacher
Work form:	Group lesson
Assessment:	Seminar participation: attendance. Seminar presentation: the teachers who attend the Research Seminar have a short discussion afterwards based on the assessment criteria. The seminars are coordinated by faculty member Gabriel Paiuk, who will contact you two weeks in advance of your presentation. Assessment criteria: - originality and relevance of the research - ability to present provisional results of the research coherently, concisely, clearly and fluently at a professional level - ability to discuss the ideas, to address questions arising from them in the course of the seminar and where appropriate to integrate the results of the discussion into the research
Grading system:	Seminar participation: Participation sufficient/insufficient Seminar presentation: Pass/Fail
Language:	English
Schedule, time, venue:	See ASIMUT schedule
Information:	Gabiel Paiuk (g.paiuk@koncon.nl)

ACADEMIC SKILLS

COLLOQUIUM PARTICIPATION

Course title:	**Colloquium Participation**

Osiris course code:	KC-M-SO-COLQ
Course content:	Throughout the academic year, a two-hour weekly colloquium takes place. Ten of these take the form of presentations by faculty, alumni and guest speakers, and the rest are presentations by each student from the fourth year of the bachelor's programme and both first and second years of the master's programme. During each colloquium, two students present aspects of their research projects. The colloquia are attended by four or five Sonology faculty members, by students from the Sonology bachelor's and master's programmes, and by students from other departments of the conservatoire. The Colloquia are moderated by faculty member Bjarni Gunnarsson, who in the week preceding the colloquium distributes information about the upcoming presentations to all participating students. The moderator introduces the speakers at the beginning of the colloquium and leads the subsequent discussions. The colloquium presentation is an important moment for the evaluation of a student's progress, about which the teachers of the Master of Music in Sonology hold regular consultations.
Objectives:	At the end of this course, you: ▪ are able to formulate an aspect of your research and the fundamentals on which it is based; ▪ are able to communicate the context of your subject, the research findings and conclusions, not just to fellow master's students but also to non-specialists; ▪ are able to incorporate the outcome of feedback from others in the further development of your research activities; ▪ are able to defend your viewpoints in the face of comments and questions from a specialist and non-specialist audience.
Programme objectives:	2.A.3, 2.A.8, 2.C.3, 2.C.6, 2.C.9, 2.C.11, 2.C.14
Level:	Master I–II
Duration:	Group lesson of two hours per week
Prior qualifications/ prerequisites:	-
Teachers:	Richard Barrett, Bjarni Gunnarsson, Johan van Kreij, Peter Pabon, Kees Tazelaar
Credits:	Participation: 2 ECTS per academic year Presentation: 7 ECTS per academic year
Literature:	To be agreed upon with the mentor(s)
Work form:	Group lesson
Assessment:	Attendance (participation) The teachers who attended the colloquium have a short discussion afterwards based on the assessment criteria (presentation). Assessment criteria: • originality and relevance of the research • ability to present provisional results of the research coherently, concisely, clearly and fluently to non-specialists as well as to specialists • ability to discuss the ideas, to address questions arising from them in the course of the colloquium and where appropriate to integrate the results of the discussion into the research
Grading system:	Participation: Pass/Fail
Language:	English

Schedule, time, venue:	See ASIMUT schedule
Information:	Bjarni Gunnarsson (gunnarssonb@koncon.nl)

COLLOQUIUM PRESENTATION

Course title:	**Colloquium Presentation**
Osiris course code:	KC-M-SO-CP
Course content:	Throughout the academic year, a two-hour weekly colloquium takes place. Ten of these take the form of presentations by faculty, alumni and guest speakers, and the rest are presentations by each student from the fourth year of the bachelor's programme and both first and second years of the master's programme. During each colloquium, two students present aspects of their research projects. The colloquia are attended by four or five Sonology faculty members, by students from the Sonology bachelor's and master's programmes, and by students from other departments of the conservatoire. The Colloquia are moderated by faculty member Bjarni Gunnarsson, who in the week preceding the colloquium distributes information about the upcoming presentations to all participating students. The moderator introduces the speakers at the beginning of the colloquium and leads the subsequent discussions. The colloquium presentation is an important moment for the evaluation of a student's progress, about which the teachers of the Master of Music in Sonology hold regular consultations.
Objectives:	At the end of this course, you: ▪ are able to formulate an aspect of your research and the fundamentals on which it is based; ▪ are able to communicate the context of your subject, the research findings and conclusions, not just to fellow master's students but also to non-specialists; ▪ are able to incorporate the outcome of feedback from others in the further development of your research activities; ▪ are able to defend your viewpoints in the face of comments and questions from a specialist and non-specialist audience.
Programme objectives:	2.A.3, 2.A.8, 2.C.3, 2.C.6, 2.C.9, 2.C.11, 2.C.14
Level:	Master I–II
Duration:	Group lesson of two hours per week
Prior qualifications/ prerequisites:	-
Teachers:	Richard Barrett, Bjarni Gunnarsson, Johan van Kreij, Peter Pabon, Kees Tazelaar
Credits:	Participation: 2 ECTS per academic year Presentation: 7 ECTS per academic year
Literature:	To be agreed upon with the mentor(s)
Work form:	Group lesson
Assessment:	Attendance (participation) The teachers who attended the colloquium have a short discussion afterwards based on the assessment criteria (presentation). The Colloquia are moderated by faculty member Bjarni Gunnarsson, who will confirm the date of your

	presentation.
	Assessment criteria: • originality and relevance of the research • ability to present provisional results of the research coherently, concisely, clearly and fluently to non-specialists as well as to specialists • ability to discuss the ideas, to address questions arising from them in the course of the colloquium and where appropriate to integrate the results of the discussion into the research
Grading system:	Presentation: Pass/Fail
Language:	English
Schedule, time, venue:	See ASIMUT schedule
Information:	Bjarni Gunnarsson (gunnarssonb@koncon.nl)

WRITING SKILLS

Course title:	**Writing Skills**
Osiris course code:	KC-M-SO-WS
Course content:	This course focuses on refining your ability to organise and express your ideas in written English. Practical exercises oriented towards developing these skills in the context of your own research directives are mandatory components for the course. Other exercises will bolster your command of writing professional texts in English (e.g., reviews, critical responses to texts, programme notes, grant proposals, article-abstracts, various online writings, and technical descriptions relevant to their work). You will also review the fundamentals necessary for proper academic citation of a wealth of research sources. In contrast to the Bachelor level course, students in this course will be expected to display a broader and deeper grasp of their research field through a greater knowledge of secondary sources, more developed research objectives, and an accelerated trajectory in the research process. Master projects will also be expected to have a more public profile through forums such as the online Research Catalogue and the Sonology website. Instructor feedback will be provided on an individual basis, thereby helping to address and accommodate a wide range of challenges. Group discussion of students' research as well as a variety of texts, both within and outside the field of your discipline, will also play a significant role in the course. This will help you to refine your presentation skills by providing a forum for the elaboration and evolution of your ideas.
Objectives:	At the end of this course, you will: ▪ have improved your ability to write independently about your work within the context of electronic music production; ▪ have refined your research topic and begun the thesis writing process; ▪ be able to apply a formal citation style (Chicago style) to written texts in connection with your thesis; ▪ have improved your ability to present your work, as well as to write texts such as biographies, programme notes, reviews, grant proposals, and other texts related to your work.
Programme objectives:	2.B.7, 2.B.8, 2.C.5, 2.C.11

Level:	Master I
Duration:	120-minute group lesson per week, during 2 semesters
Prior qualifications/ prerequisites:	–
Teachers:	Thomas Aldrich
Credits:	4 ECTS
Literature:	Course kit and in-class presentations
Work form:	Group lesson
Assessment:	Students are assessed on the basis of their active contribution to the group sessions and a selection from their responses to assignments given throughout the year (Biography, Programme Notes, Text Summary, Research Proposal, Bibliography, Outline and Chapter of Thesis). Assessment criteria (assignments): • coherence and incisiveness of thought • use of sources • language and tone • clarity of written discourse • logic, relevance, and strength of argument
Grading system:	Final result: Numeric
Language:	English
Schedule, time, venue:	See ASIMUT schedule
Information:	Thomas Aldrich (t.aldrich@koncon.nl)

PROFESSIONAL INTEGRATION

SOUND ENGINEERING IN ELECTRONIC MUSIC 1

Please note: Students who have successfully completed the Bachelor of Music in Sonology programme at the Royal Conservatoire are not expected to repeat the Sound Engineering in Electronic Music 1 and 2 courses. They are required to obtain 4 ECTS per year by way of two Exchange Workshops or Career Development Office (CDO) points. Please contact the Sonology department for more information.

Course title:	**Sound Engineering in Electronic Music 1**
Osiris course code:	KC-M-SO-GLT
Course content:	This course intends to give a basic understanding of practical studio and live sound reinforcement techniques. Different types of signal flows which can be encountered in a studio or concert situation will be dealt with theoretically and practically, starting from how to make a basic audio recording or multichannel playback in a studio, to how to plan and realise a multichannel electroacoustic music performance. Students are responsible for preparing and implementing the Sonology Discussion Concerts under the teacher's guidance, which take place five times a year. Each

	concert involves class preparation, preparation at home and two days of preparation in the concert hall including sound checks and rehearsals. There is a group evaluation after each concert.
Objectives:	At the end of this course, you: ▪ are more familiar with various types of studio and live sound equipment; ▪ are able to follow and troubleshoot signal flow; ▪ are able to make a (basic) instrumental recording in a studio or concert; ▪ are able to participate in a technical crew for a small-scale concert or small-scale festival; ▪ are able to independently prepare a small-scale concert performance, including amplification; ▪ are able to compile and understand equipment lists, patch lists, stage plans and time schedules for a concert.
Programme objectives:	2.A.9, 2.C.4
Type of course:	Compulsory
Level:	Master I
Duration:	2 semesters, 120 minutes per week, 30 weeks
Prior qualifications/ prerequisites:	
Teachers:	Marko Uzunovski
Credits:	4 ECTS
Literature:	To be determined
Work form:	Group lesson, practicals
Assessment:	Test 1: A practical test of studio signal flow techniques in March (Pass/Fail). Test 2: Participation as a crew member in Sonology Discussion Concerts (Pass/Fail). Test 3: A short reflective paper on the challenges you faced during the preparation of the Sonology Discussion Concert in which you were part of the crew and the solutions implemented. Your paper is due at the end of the course, the teacher will confirm the exact deadline. All tests have to be concluded with a positive result in order to pass the course (Pass/Fail).
Grading system:	Pass/Fail
Language:	English
Schedule, time, venue:	See ASIMUT schedule
Information:	Marko Uzunovski (m.uzunovski@koncon.nl)

SOUND ENGINEERING IN ELECTRONIC MUSIC 2

Please note: Students who have successfully completed the Bachelor of Music in Sonology programme at the Royal Conservatoire are not expected to repeat the Sound Engineering in

Electronic Music 1 and 2 courses. They are required to obtain 4 ECTS per year by way of two Exchange Workshops or Career Development Office (CDO) points. Please contact the Sonology department for more information.

Course title:	**Sound Engineering in Electronic Music 2**
Osiris course code:	KC-M-SO-GLT
Course content:	Semester 1 of this course deals with the theory and practice of microphone types and working principles as well as grounding and interfacing practice. Applications of microphones are studied in stereo microphone recording techniques and in sound reinforcement situations. As a preparation for the second part of the course, an intensive frequency hearing training is performed. Semester 2 of the course deals with the basic principles of mixing and balancing where the relationship between music and sound is studied in detail. This part of the course is organized in intensive hands-on sessions. The group will be split up in smaller groups of 2 students.
Objectives:	At the end of this course, you: ▪ are able to independently design a simple microphone setup, including positioning and focusing. This both for recording and amplification, bearing in mind the musical material and the acoustical and architectural properties of the surroundings; ▪ are able to independently recognise frequency ranges and formant areas to an accuracy of ± 1 octave, expressed in Hertz (Hz). ▪ are able to independently decide on mix questions during a multitrack mixing process, based on the relation between sound and the musical material in question.
Type of course:	Compulsory
Level:	Master II
Duration:	Weekly two-hour meeting
Prior qualifications/ prerequisites:	Sound Engineering in Electronic Music 1
Teachers:	Paul Jeukendrup
Credits:	4 ECTS
Literature:	To be determined
Work form:	Group lesson, practicals
Assessment:	Test 1: A written test at the end of the first part of the course, involving both theory questions and cases (numeric result). Test 2: Participation in the intensive mix classes (participation sufficient/insufficient). Test 3: A short reflective paper on how you have applied the content of this course to the final presentation of your composition/performance/research course. You are required to give attention to one or more of the following three areas: 1. loudspeaker

	systems and their applications, 2. the application of microphone(s) (systems), 3. conceptual choices in the mixdown of your work. Your paper is due at the end of the course, the teacher will confirm the deadline. All tests have to be concluded with a positive result in order to pass the course.
Grading system:	Numeric
Language:	English
Schedule, time, venue:	See ASIMUT schedule
Information:	Paul Jeukendrup (p.jeukendrup@koncon.nl)

OVERVIEW OWN PROJECTS

Course title:	**Overview Own Projects**
Osiris course code:	KC-M-SO-EP
Course content:	In this course you will develop specific writing methods in order to aim relevant information about your project to different readers and target audiences. You learn how to manage and present a project to assorted funding bodies which require business proposals, planning, schedules, budgets, applications and CVs. You will create budgets that include realistic targets and practice presentation skills. You will create online portfolios, discuss the importance of social media and online platforms, as well as the use of keywords and meta-data as a way to maintain online visibility. The topics of discussion alternate every year.
Objectives:	At the end of this course (after the second year) you: ▪ are able to explain your projects clearly to different audiences; ▪ can create a realistic, inclusive budget; ▪ can prepare a plan of execution based on consequence; ▪ are able to pitch clearly your projects core intentions; ▪ can create a web portfolio and manage social media.
Programme objectives:	2.A.3, 2.A.8, 2.A.12, 2.C.1, 2.C.3, 2.C.8, 2.C.9, 2.C.11, 2.C.14
Type of course:	Compulsory
Level:	Master I-II
Duration:	Five two-hour lessons per year
Prior qualifications/ prerequisites:	-
Teachers:	Fani Konstantinidou
Credits:	2 ECTS per academic year
Literature:	n/a
Work form:	Group lessons, in-class assignments
Assessment:	This course includes various small assignments depending on the chosen course topics per year. Assignments may include creating an online portfolio/website, delivering a pitch, writing a project plan/proposal, creating a budget plan, writing an artistic versus academic CV, etc. The exact

	assignments and corresponding deadlines will be set by the teacher and you will be informed of these as soon as possible during the course. All assignments have to be passed in order to pass the course. Assessment criteria: • compliance with given instructions (e.g. word count, content) • meeting the relevant deadlines • originality and quality
Grading system:	Pass/Fail
Language:	English
Schedule, time, venue:	See ASIMUT schedule
Information:	Kees Tazelaar (k.tazelaar@koncon.nl)

	Composition and/or performance skills	Digital and analogue studio skills	Computer programming and/ or hardware skills	Sound projection skills	Ability to discuss techniques and ideas	Originality and relevance of the research	Writing skills
9 - 10	Rare musicianship for this level.	Excellent translation of technical procedures into musical results.	Highly advanced computer programming and/or hardware construction skills.	Exceptional abilities in sound projection of electronic music.	Exceptionally convincing thesis defence.	Exceptional research ability as shown in the thesis.	Exceptional writing ability as shown in the thesis.
7,5 - 8,5	Musicianship skills of a consistently good level.	Good translation of technical procedures into musical results.	Above average computer programming and/or hardware construction skills.	Good abilities in sound projection of electronic music.	Convincing thesis defence.	Good research ability as shown in the thesis.	Good writing ability as shown in the thesis.
5,5 - 7	If not always consistent, a reasonable general level.	Adequate translation of technical procedures into musical results.	Acceptable level of computer programming and/or hardware construction skills.	Adequate abilities in sound projection of electronic music.	Adequate if not always convincing thesis defence.	Adequate research ability as shown in the thesis.	Adequate writing ability as shown in the thesis.
0 - 5	The work and the performance do not reveal sound musicianship skills.	Inadequate translation of technical procedures into musical results.	Computer programming and/or hardware construction skills weak or absent.	Inadequate abilities in sound projection of electronic music.	Inadequate or no response to questions in the thesis defence.	Insufficient amount and/or quality of research as shown in the thesis.	Insufficient amount and/or quality of writing as shown in the thesis.

GRADING SCALES

The Royal Conservatoire uses four grading scales for its assessments: Qualifying results - Numeric results - Participation results - Pass/Fail

QUALIFYING RESULTS

Description ENG	Code ENG	Omschrijving NL	Code NL	Pass?	Exemption?
Excellent	EXC	Excellent	EXC	Yes	No
Very good	VG	Zeer goed	ZG	Yes	No
Good	G	Goed	G	Yes	No
More than sufficient	MTS	Ruim voldoende	RV	Yes	No
Sufficient	S	Voldoende	V	Yes	No
Insufficient	I	Onvoldoende	O	No	No
Very insufficient	VI	Zeer onvoldoende	ZO	No	No
Poor	PR	Zwak	Z	No	No
Very poor	VP	Zeer zwak	ZZ	No	No
Extremely poor	EP	Uiterst zwak	UZ	No	No
Exemption	EXEMP	Vrijstelling	VRIJ	Yes	Yes
Pass based on entrance exam	PEN	Behaald op basis van toelatingsexamen	BTO	Yes	Yes
Pass based on Erasmus	PER	Behaald op basis van Erasmus	BER	Yes	Yes
Pass based of preparatory year	PPR	Behaald op basis van voorbereidend jaar	BVO	Yes	Yes
Absent	AB	Niet verschenen	NV	No	No
Extension	EXT	Uitstel	U	No	No

NUMERIC RESULTS

A numeric grade between 0 and 10, including a maximum of one digit after the decimal point.

10 Excellent	9 Very good	8 Good	7 More than sufficient	6 Sufficient	5 Insufficient	4 Very insufficient	3 Poor	2 Very poor	1 Extremely poor

Other possible results are Exemption, Pass based on entrance exam, Absent and Extension.

PARTICIPATION RESULTS

Description ENG	Code ENG	Omschrijving NL	Code NL	Pass?	Exemption?
Participation sufficient	PS	Voldoende deelname	DV	Yes	No
Participation insufficient	PI	Onvoldoende deelname	DNV	No	No
Exemption	EXEMP	Vrijstelling	VRIJ	Yes	Yes
Pass based on entrance exam	PEN	Behaald op basis van toelatingsexamen	BTO	Yes	Yes
Pass based on Erasmus	PER	Behaald op basis van Erasmus	BER	Yes	Yes
Pass based of preparatory year	PPR	Behaald op basis van voorbereidend jaar	BVO	Yes	Yes
Never participated	NP	Nooit deelgenomen	ND	No	No
Extension	EXT	Uitstel	U	No	No

PASS/FAIL

Description ENG	Code ENG	Omschrijving NL	Code NL	Pass?	Exemption?
Pass	P	Pass	P	Yes	No
Fail	F	Fail	F	No	No
Exemption	EXEMP	Vrijstelling	VRIJ	Yes	Yes
Pass based on entrance exam	PEN	Behaald op basis van toelatingsexamen	BTO	Yes	Yes
Pass based on Erasmus	PER	Behaald op basis van Erasmus	BER	Yes	Yes
Pass based of preparatory year	PPR	Behaald op basis van voorbereidend jaar	BVO	Yes	Yes
Absent	AB	Niet verschenen	NV	No	No
Extension	EXT	Uitstel	U	No	No