Module Descriptions for Multimedia Composition Master of Arts

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Examinations: A distinction is made between examinations and academic performance. Exams are administered by a committee. They can be repeated once and are usually held at the end of a module. Academic achievements are assessed by the lecturer. They can be completed in the course of a module, e.g., credits are awarded for papers, term papers, presentations and tests of various kinds. They can be repeated as often as necessary. Both examinations and academic performances are usually assessed as passed or failed. The examination results in the final modules are, however, assessed in a different manner.

N.B. The course type is given in parentheses as a German abbreviation after the name of the course. E refers to Einzelunterricht (individual lesson); G refers to Gruppenunterricht (group lesson); S refers to Seminar (seminar); and V refers to Vorlesung (lecture series).

1   CORE MODULE MULTIMEDIA COMPOSITION

1.1   Core Module 1 Multimedia Composition

Module name and code	Core Module 1 Multimedia Composition Master	K-1-MMK			
ECTS Points	36				
Study Semesters	1st & 2nd semesters				
Length and Type of Module	2 semesters / compulsory				
Frequency of Offer	every year	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Multimedia Composition (E)	35	145	1	6
	2) Instrumental Composition (G)	35	145	1,5	6
	3) Techniques of Multimedia Composition (S)	140	160	3	12
	4) Electronic Performance Practice (G)	35	85	1.5	6
	5) Colloquium (G)	17.5	12.5	0.75	2
	6) Multimedia Forum (G)	35	85	1	4

Content	1) Discussion of student works, discussion of aesthetics of multimedia composition, project meetings, concert preparations.
	2) Introduction and in-depth study of aspects of contemporary music notation and performance.
	3) Participation in the following courses offered cyclically every other year:
	   • Introductory Max
	   • DSP (synthesis and processing)
	   • Music notation and representation
	   • Video processing with Jitter
	4) History and practice of live electronic performance.
	5) Additional questions in the field of instrumental and multimedia composition, including approaches such as improvisation or music theater.
	6) A forum for the students of multimedia composition for the exchange of ideas and organization of projects

Qualification Goals	- Development of conceptual, aesthetic and technical skills. - Students should be able to plan and adequately notate musical processes. - Acquisition of technical skills for the creative handling of algorithmic composition. - Consolidation of skills in handling hardware and software for live electronics. - Acquisition of further knowledge in various areas of contemporary compositional thought.
Proof of Achievement	Module examination for academic achievement: 1. Successful performances of the compositions worked on. 2. Submission of the compositions worked on. At least 85% attendance.
Participation Requirements	Passed entrance examination, good knowledge of German and English. Skills in electronic music and multimedia as well as the ability to pursue small research and development projects.
Coordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	by agreement

1.2   Core Module 2 Multimedia Composition

Module name and code	Core Module 2 Multimedia Composition Master	K-2-MMK			
ECTS Points	30				
Study Semesters	3rd & 4th semesters				
Length and Type of Module	2 semesters / compulsory				
Frequency of Offer	every year	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Multimedia Composition (E)	35	145	1	6
	2) Instrumental Composition (G)	35	145	1.5	6
	3) Techniques of Multimedia Composition (S)	140	160	3	12
	4) Multimedia Forum (G)	35	85	1	2
	5) Colloquium (G)	17.5	12.5	0.75	2

Content	1) Discussion of student works, discussion of aesthetics of multimedia composition, project meetings, concert preparations. 2) Introduction and in-depth study of aspects of contemporary music notation and performance. 3) Participation in the following courses offered cyclically every other year: • Interfaces & Sensors • Computer-aided composition / computational music theory • Multi-channel and spatial audio • Programming languages (JavaScript / Python / C etc.) 4) Additional questions in the field of instrumental and multimedia composition, including approaches such as improvisation or music theater. 5) A forum for the students of multimedia composition for the exchange of ideas and organization of projects
Qualification Goals	- Development of conceptual, aesthetic and technical skills. - Students should be able to plan and adequately notate musical processes. - Acquisition of technical skills for the creative handling of algorithmic composition. - Consolidation of skills in handling hardware and software for live electronics. - Acquisition of further knowledge in various areas of contemporary compositional thought.
Proof of Achievement	Module examination for academic achievement: - Successful performances of the compositions worked on. - Submission of the compositions worked on. At least 85% attendance.
Participation Requirements	Passed entrance examination, good knowledge of German and English. Skills in electronic music and multimedia as well as the ability to pursue small research and development projects.
Recommended Basic Literature	by agreement

2   RESEARCH MODULE

Module name and code	Academic 1 Multimedia Composition Master		Wis-1-MMK			
ECTS Points	15					
Study Semesters	1st, 2nd & 3rd semesters					
Length and Type of Module	3 semesters / compulsory					
Frequency of Offer	every year		Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Seminar on selected topics (S)		70	170	1.5	9
	2) Media theory (S)		35	85	1.5	3
	3) Science of Music (V)		35	85	1.5	3

Content	1) Seminar on various topics (ethnomusicology, microtonality, contemporary rhythm, history of new music). 2) History and concepts of multi-, inter- and transmedial art. 3) Concepts of psychoacoustics and musical cognitive psychology: loudness, consonance/dissonance, pitch, harmony, melody, timbre, keys and tuning systems, metrics/rhythm, Gestalt psychology, auditory scene analysis, neurology of hearing.
Qualification Goals	- Extension and deepening of knowledge in the field of new music. - Knowledge of essential cornerstones of multi-, inter- and transmedial art. - Knowledge of essential concepts of psychoacoustics and musical cognitive psychology.
Proof of Achievement	1) Achievement: lecture, term paper. 2) Achievement: term paper. 3) Achievement: written exam or term paper. At least 85% attendance; proof of attendance and examination per semester
Participation Requirements	Passed entrance examination, good knowledge of German and English. Skills in electronic music and multimedia as well as the ability to pursue small research and development projects.

Coordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	1) by agreement 2) HOOU course History and Practice of Multimedia 3) HOOU course The Science of Music

3 TECHNICAL ELECTIVES MODULE

Module name and code	Technical Elective Module 1–3 Multimedia Composition Master	Tec-W1-MMK			
ECTS Points	9				
Study Semesters	1st & 2nd & 3rd semester				
Length and Type of Module	3 semesters / Compulsory				
Frequency of Offer	every year (upon offer)	Attendance Time	Homework	SWS	Credits
Courses (Type)	elective subject (G)	105	255	6	12

Content	Offers: recording, sound design, immersive media, film music, programming languages, improvisation as well as offers from other universities.
Qualification Goals	- Extension and deepening of technical skills in the field of multimedia.
Proof of Achievement	academic achievement not less than 85% attendance
Participation Requirements	Passed entrance examination, good knowledge of German and English. Skills in electronic music and multimedia as well as the ability to pursue small research and development projects.
Coordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	by agreement

4   PROJECT MODULE

Module name and code	Project Modul	Proj-1-MMK			
ECTS Points	6				
Study Semesters	1st & 2nd semesters				
Length and Type of Module	2 semesters / Elective				
Frequency of Offer	every year (upon offer)	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Project	70	170	N.A.	6

Content	1) Assistance and cooperation to interdisciplinary projects either between departments of the Hochschule or between Hochschule and other external institutions
Qualification Goals	- Extension and deepening of theoretical and practical knowledge in the field of multimedia/contemporary music and/or music education.
Proof of Achievement	1) Achievement: Project work At least 85 % attendance; proof of attestation of attendance and examination per semester
Participation Requirements	Passed entrance examination, good knowledge of German and English. Skills in electronic music and multimedia as well as in research work.
Coordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	by agreement

5   FINAL MODULE

Module name and code	Final Module Multimedia Composition Master	AB-MMK			
ECTS Points	24				
Study Semesters	3rd & 4th semester				
Length and Type of Module	2 semesters / compulsory				
Frequency of Offer	every year	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Thesis	-	240	-	6
	2) Electroacoustic music composition	-		-	3
	3) Final project	-	600	-	15

Content	1) Writing a term paper in the field of multimedia composition relevant to the final project's topic 2) Composing an electroacoustic musical piece for the spatialized audio systems installed at the HfMT. Final project in the field of multimedia composition including all relevant elements: video, audio, interactivity.
Qualification Goals	- The student should independently work on a relevant topic and present it in a multimedia format. - The student should independently work on an electroacoustic music composition for different audio systems - The student should use the final project to show that the contents of the courses have been mastered and artistically implemented.
Proof of Achievement	1) Term paper as hypertext (HTML). 2) Electroacoustic music composition presented in a multimedia event 3) Concert, installation or software/hardware presentation. At least 85 % attendance; proof of attendance and examination per semester
Participation Requirements	Passed module examinations of the first year.
Coordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	by agreement