Module Descriptions for Multimedia Composition Master of Arts

Version February 2019, English translation June 2019

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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. Their repeatability is not limited. 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.

1   STUDY PLAN

MODULE	1st Sem.		2nd Sem.		Exam	3rd Sem.		4th Sem.		Exam
Core Module	**SWS**	**Cr**	**SWS**	**Cr**		**SWS**	**Cr**	**SWS**	**Cr**	
Multimedia Composition (E/G)	1	**3**	1	**3**		1	**3**	1	**3**	
Composition (E)	1	**3**	1	**3**		1	**3**	1	**3**	
Colloquium	0.5	**1**	0.5	**1**	S	0.5	**1**	0.5	**1**	S
Techniques of Multimedia Composition (S)	4	**5**	4	**5**		4	**5**	4	**5**	
Electronic Performance Practice (E)	1	**2**	1	**2**		1	**2**	1	**2**	
Final Module						AB- MMK				
Term Paper							**8**			P
Final Project							**5**		**15**	
Academic Module	Wiss-1 -MMK									
Seminar on selected topics (S)	2	**4**	2	**4**	S					
Media Theory (S)	2	**4**			S					
Science of Music (V)			2	**4**	S					
Technical Module	Tec-W1 -MMK									
Elective subject [1]	2	**4**	2	**4**		2	**4**			S
Theoretical Module	The-W1 -MMK									
Elective subject [2]	2	**4**	2	**4**	S					
Sum of Credits		**30**		**30**			**31**		**29**	**120**

E = Individual lesson; S = Seminar; V = Lecture
SWS = Semester periods per week; Cr. = Credits according to ECTS (1 Cr. = 30 h)
P = Examination before committee; S = defined academic performance; for details see module description.

2   CORE MODULE MULTIMEDIA COMPOSITION

2.1   Core Module 1 Multimedia Composition

Module name and code	Core Module 1 Multimedia Composition Master	K-1-MmK			
ECTS Points	28				
Study Semesters	1st & 2nd semester				
Length and Type of Module	2 semesters / compulsory				
Frequency of Offer	every year	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Main subject Multimedia Composition (E/G)	35	145	1	6
	2) Composition (E)	35	145	1	6
	3) Techniques of Multimedia Composition (G)	140	160	4	10
	4) Electronic Performance Practice (E)	35	85	1	4
	5) Colloquium (G)	17.5	12.5	0.5	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. 3) Algorithmic composition (concepts, history, works, software). Software: Max/MSP, OpenMusic. 4) History and practice of live electronic performance. 5) Additional questions in the field of composition, including approaches such as improvisation or cognitive science.
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 in research work.
Co-ordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	by agreement with 3) Roads: Computer Music Tutorial; Xenakis: Formalized Musik; Barlow: Two Essays on Theory; Barlow: A Journey to Parametron; Cope: Virtual Music; Rowe: Machine Musicianship; Winkler: Composing Interactive Music: Techniques and Ideas Using Max.

2.2   Core Module 2 Multimedia Composition

Module name and code	Core Module 2 Multimedia Composition Master	K-2-MmK			
ECTS Points	28				
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) Main subject Multimedia Composition (E/G)	35	145	1	6
	2) Composition (E)	35	145	1	6
	3) Techniques of Multimedia Composition (G)	140	160	4	10
	4) Electronic Performance Practice (E)	35	85	1	4
	5) Colloquium (G)	17.5	12.5	0.5	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. 3) Algorithmic composition (concepts, history, works, software). Software: Max/MSP, OpenMusic. 4) History and practice of live electronic performances. 5) Additional questions in the field of composition, including approaches such as improvisation or cognitive science.				
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 in research work.
Co-ordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	by agreement with 3) Roads: Computer Music Tutorial; Xenakis: Formalized Musik; Barlow: Two Essays on Theory; Barlow: A Journey to Parametron; Cope: Virtual Music; Rowe: Machine Musicianship; Winkler: Composing Interactive Music: Techniques and Ideas Using Max.

3   ACADEMIC MODULE

Module name and code	Academic 1 Multimedia Composition Master	Wis-1-MmK			
ECTS Points	8				
Study Semesters	1st & 2nd semester				
Length and Type of Module	1 semester / compulsory				
Frequency of Offer	every year	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Seminar on chosen topics (G)	70	170	2	8
	2) Media theory (G)	35	85	2	4
	3) The Science of Music (V)	35	85	2	4

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 in research work.
Co-ordinator	Prof. Dr. Georg Hajdu
Recommended Basic Literature	by agreement with 3) Roads: Computer Music Tutorial; Xenakis: Formalized Musik; Barlow: Two Essays on Theory; Barlow: A Journey to Parametron; Cope: Virtual Music; Rowe: Machine Musicianship; Winkler: Composing Interactive Music: Techniques and Ideas Using Max.

4   TECHNICAL ELECTIVE MODULE

Module name and code	Technical Elective Module 1–3 Multimedia Composition Master	TeW-1-Mmk; TeW-2-Mmk; TeW-3-Mmk		
ECTS Points	12			
Study Semesters	1st & 2nd & 3rd semester			
Length and Type of Module	3 semesters / Elective			
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, film music, interactive video (Jitter), Java, programming languages, web design, sensor technology 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 in research work.			
Co-ordinator	Prof. Dr. Georg Hajdu			
Recommended Basic Literature	by agreement			

5   THEORETICAL ELECTIVE MODULE

Module name and code	Theoretical Elective Module 1+2 Multimedia Composition Master	ThW-1-MmK; ThW-2-MmK			
ECTS Points	8				
Study Semesters	1st & 2nd semester				
Length and Type of Module	2 semesters / Elective				
Frequency of Offer	every year (upon offer)	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) elective subject (G)	70	170	4	8
Content	1) Offers from: 20th-/21st-century musicology, music theory (including jazz), lectures on new music, as well as offers from other universities.				
Qualification Goals	- Extension and deepening of theoretical 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.				
Co-ordinator	Prof. Dr. Georg Hajdu				
Recommended Basic Literature	by agreement				

6   FINAL MODULE

Module name and code	Final Module Multimedia Composition Master	AB-MmK			
ECTS Points	28				
Study Semesters	3rd & 4th semester				
Length and Type of Module	1 semester / compulsory				
Frequency of Offer	every year	Attendance Time	Homework	SWS	Credits
Courses (Type)	1) Term paper	-	240	-	8
	2) Final project	-	600	-	20
Content	1) Writing a term paper in the field of multimedia composition. 2) 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 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 or Flash). 2) 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.				
Co-ordinator	Prof. Dr. Georg Hajdu				
Recommended Basic Literature	by agreement				