Hochschule für Musik Detmold

Degree Course Scheme Master of Science Musics Acoustics - PO 2025

Module			components of the module	core /elect.	semester and time of attendance in min./week 1	2	3	4	requirements for the award of ECTS credits	ECTS credits
A Basics of scientific work	**1010**	A1	Introduction to scientific work	c	90				1 certificate of attendance ("Testat")	
	1020	A2	Application of scientific work	c		90			1 certificate of attendance ("Testat")	
	1030		module exam	oral presentation on a scientific article with a written review paper of 8 pages minimum						4
B Colloquium Music Acoustics and Audio Technique	**1510-1540**	B	Colloquium music acoustics and audio technique	c	90	90	90	90	1 certificate of attendance ("Testat")	
	1550		module exam	4 oral presentations of 30 minutes each						4
C Master thesis	**2010**	C		c				90	written Master thesis of 60 pages minimum	23
D Fundamentals of Music Acoustics	**2510**	D1	Organology	c		135			1 certificate of attendance ("Testat")	
	2520	D2	Music Acoustics	c	135				1 certificate of attendance ("Testat")	
	2530	D3	Analysis of traditional and new playing techniques	c	90				1 certificate of attendance ("Testat")	
	2540		module exam	one report on the three courses of the module, which contribute equally to the module grade, at least 20 pages						8
E Applied Acoustics	**3010**	E1	Advanced room acoustics	c	90				1 certificate of attendance ("Testat")	
	3020	E2	Acoustic measurement techniques	c	90				1 certificate of attendance ("Testat")	
	3030	E3	Exercise in Acoustic Measurement techniques	c	90				1 certificate of attendance ("Testat")	
	3040	E4	Music computing	c	90				1 certificate of attendance ("Testat")	
	3050		module exam	project report						8
F Physics of Musical Instruments	**3510**	F1	Operation of musical instruments	c	90				1 certificate of attendance ("Testat")	
	3520	F2	Exercise in operation of musical instruments	c	45				1 certificate of attendance ("Testat")	
	3530	F3	Lab Exercises Operation of Musical Instruments	c		90			1 certificate of attendance ("Testat")	
	3540	F4	Structure bourne sound	c		90			1 certificate of attendance ("Testat")	
	3550	F5	Exercises in structure bourne sound	c		90			1 certificate of attendance ("Testat")	
	3560		module exam	two oral exams of 30 minutes each						9
G Practical Music Acoustics	**4010-4020**	G1	Excursion to a musical instrument maker or an institute engaged in music acoustics research	c	var.	var.			1 certificate of attendance ("Testat")	
	4030	G2	Congress participation (TMT, AES, DAGA)	e		var.			one of the two courses has to be chosen; 1 certificate of attendance ("Testat")	
	4040	G3	Wave field synthesis work shop and concert	e		225				
	4050	G4	Human factors	c		90			1 certificate of attendance ("Testat")	
	4060		module exam	one report on the ***three*** chosen module sections						17
H Construction of a Musical Instrument	**4510**	H	Making and optimization of a musical instrument	c			var.		1 certificate of attendance ("Testat")	
	4520		module exam	oral presentation (30 min) and a written report (at least 30 pages) on the making process of the instrument and its physics, performance and sound characteristics						23
I A Elective Courses HfM	**5000**	I A	see offerings of the HfM Detmold	e	var.	var.	var.	var.	variable	
										24
I B Elective Courses		I B1	Psychoacoustics (g/e)	e	2 ECTS				up to 1 certificate of attendance ("Testat")	
		I B2	Courses in Musicology (g)	e	2-4 ECTS				up to 2 certificates of attendance ("Testat")	
		I B3	Jazz Combo (g/e)	e	2-8 ECTS				up to 4 certificates of attendance ("Testat")	
		I B4	Chamber music (g/e)	e	3-12 ECTS				up to 4 certificates of attendance ("Testat")	
		I B5	Mixed Group improvisation (g)	e	2-4 ECTS				up to 2 certificates of attendance ("Testat")	
		I B6	Music informatics (g/e)	e	4-8 ECTS				up to 2 certificates of attendance ("Testat")	
		I B7	Aural training (g)	e	1-2 ECTS				up to 2 certificates of attendance ("Testat")	
		I B8	Technical aural training (g)	e	1-2 ECTS				up to 2 certificates of attendance ("Testat")	
		I B9	Choir (g)	e	1-4 ECTS				up to 4 certificates of attendance ("Testat")	
		I B10	Auxiliary Instrument Lessons (g/e) (only after passed aptitude test)	e	16 ECTS				exactly 4 certificates of attendance ("Testat")	
		I B11	Participation in an Academic Research Study (g/e)	e	4-8 ECTS				up to 2 certificates of attendance ("Testat")	
		I B12	Industrial Internship (g/e)	e	6 ECTS				up to 1 certificate of attendance ("Testat")	
		I B13	Modelling of musical instruments	e	2 ECTS				up to 1 certificate of attendance ("Testat")	
		I B14	Sound field analysis and synthesis	e	2 ECTS				up to 1 certificate of attendance ("Testat")	
		I B15	Virtual Acoustics	e	2 ECTS				up to 1 certificate of attendance ("Testat")	
			External intensive course	e	1-4 ECTS*				up to 4 certificates of attendance ("Testat")	
			Selected Master courses of TH OWL	e	2-8 ECTS*				up to 4 certificates of attendance ("Testat")	
			module exam	examinations in four of the chosen courses						24

(g) = requires knowledge of german language * ECTS according to the course organiser and in agreement with the program coordinator

Stand: September 2025