

KURSBESCHREIBUNG/ COURSE DESCRIPTION

KURSTITEL <i>Course title</i>	Introduction to Sound-Engineering
KURS-ID <i>Course number</i>	
Kursverantwortlicher <i>Person in charge</i>	Language and Electives Centre
Art der Lehrveranstaltung <i>Type of course</i>	Elective
Studiengang <i>Course of studies</i>	all
Niveau <i>Course Level</i>	Undergraduate / graduate
Voraussetzungen <i>Prerequisites</i>	None. Interest in "sound" and a bit affinity to technology.
SWS <i>Lessons per week</i>	2 (possibly in blocks)
ECTS <i>ECTS (Credits)</i>	2
Art der Prüfung <i>Course assessment</i>	Practical work assignment and presentation.
Unterrichtssprache <i>Course language</i>	English
Dozent <i>Lecturer</i>	Prof. Dr. Sascha Kreiskott
Kursziele <i>Course objectives</i>	<p>Sound engineering is right at the interface between technology and art. How often have you been to a concert and been disappointed by the sound? However, the opposite happens as well: the sound of a concert/band or a recording blasts you away and makes the experience even more emotional.</p> <ul style="list-style-type: none"> • Knowledge In this lecture we will cover the theoretical basis of sound engineering. Students will understand, how sound is physically created and perceived. They learn what is important in the processing and how this processing happens from the technical perspective. • Skills Students will understand how to use technology to enable a creative process while mixing. They know what to do technically to achieve desired creative results. • Competencies Ability, to operate digital and analog sound engineering equipment. Ability to analyze results and define technical and artistic measures to improve the result. Students are able to analyze recordings and deduct, what can be improved. Students understand the psychology of the recording and mixing process and can adjust their

	<p>actions accordingly. Students are able to independently manage the process from recording over processing and mixing to post-production.</p>
<p>Kursinhalte <i>Course contents</i></p>	<p>Sound and hearing. Physical and biological foundation. Recording and reproduction of sound. Limits and artefacts. Microphone and loudspeaker types. What makes sound good? The role of phase, timing and linearity. ...and how that "practically" sounds... Managing volume levels, technology and physiology. Shaping sounds – equalization Shaping dynamics. Compressors, expanders and gates. Their technology and artistic application. Effects and their influence on the emotional result of sound. Mixing consoles and DAWs. Principles of mixing. Analog or digital? What's "better"? Live sound specialities. Practical application / mixing exercises.</p>
<p>Lehrmethoden <i>Teaching methods</i></p>	<p>Seminaristic teaching and group work.</p>
<p>Lehrbuch <i>Textbook</i></p>	<p>Bobby Owsinski, The Mixing Engineer's Handbook, 4th edition, 2017, Bobby Owsinski Media Group, Burbank</p>
<p>Empfohlene Literatur <i>Recommended reading</i></p>	
<p>Besonderes <i>Specific requests</i></p>	<p>The lecture will most probably be taught in blocks. Due to practical limitations maximum 20 students possible.</p>
<p>Kurs gehört zum Zusatzzertifikat ... <i>Course is part of the additional certificate</i></p>	<p>Not applicable.</p>