

course beginning: autumn autumn

subject catalogue S23 K24

course code KOE711

name of course

Fundamentals of Sound Engineering

specification

for EL, HR, AV specialty BA level, elective for others

academic instructor

S.Mäesalu

prerequisite course

no of terms

1

contact hr/total

30.0

hr/term

30.0

hr/week

2.0

ECTS/total

3.00

Lect

30.0

Grp

0.0

Ind

0.0

Sem

0.0

Pract

0.0

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**graded or pass/fail exams**

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**term**

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**ECTS**

3.00

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**aim of the subject**

The subject aims to introduce to students the basic concepts and knowledge of music recording. The main devices, such as microphones, loudspeakers, mixing console, etc. will be discussed in detail, as well as both the subjective and objective parameters that influence the judgment and evaluation of musical sound and its quality.

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**content**

Essence of sound and the features of sound diffusion. Theory of the sound recording, transmission and playback process. Microphones. Loudspeakers. Speakers. Earpieces. Audio power amplifiers. Basics of analogue and digital sound. Sound compression. Creating a soundscape. Sound design and sound art. General subjective soundscape assessment parameters.

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**learning outcomes**

On completion of the subject, students will know the basic concepts, means and technology of sound recording.

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**assessment**

Non-differentiated assessment. Oral assessment to test the student's theoretical knowledge of the basic concepts, tools and technology.

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**assessment criteria**

The precondition for a positive assessment result is participation in at least 70% of the lectures. In the oral test, students are required to demonstrate their knowledge in the material covered during the course.

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**course reading material**

Rumsey, F., McCormick, "T. Sound and Recording. Music Technology Series". Oxford: Focal press, 2002.

Eiskop, Ilmar, Sillart, Aleksander. "Akustika ja helitehnika". Tallinn, 1988.

Görne, Thomas. "Tontechnik". Fachbuchverlag Leipzig, 2006.

McLeish, Robert. "Radio Production". Oxford: Focal Press, 1996.

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**author of course description**

Hannes Valdma