

Seminar on Audio Production Techniques

Teacher: Martin Fuks (www.martinfuks.com)

Objectives: Introduction to the technical knowledge for music production and audio processing, including recording, editing, mixing and postproduction.

Duration: 8 classes of 2 hours.

Level: medium – advanced.

DAW: suggested platform is Pro Tools.

The seminar is both theoretical and practical, with practice material specially developed by the teacher for this course.

Class 1:

- Sound waves physics: introduction, characteristics.
- Amplitude, phase, frequency, envelope, timbre.
- Production process stages: recording, editing, mixing, mastering.

Class 2:

- Recording: Microphones technologies and placing.
- Signal levels: peak, RMS. Measure instruments.
- Recording routing.

Class 3:

- Editing: basic techniques. Editing grid.
- Editing tools.
- MIDI Recording/Editing.
- Quantization.

Class 4:

- Mixing routing. Serial/Parallel processing.
- Spatiality processing: Reverb and Delay.

Class 5:

- Dynamic processing.
- Compressor/Limiter. Expander/Gate.

Class 6:

- Timbre processing: equalizers and filters.
- Sound spectrum.
- EQ techniques.

Class 7:

- Mixing techniques. Basic tips.
- Signal to Noise ratio.

Class 8:

- Mastering. Basic concepts.
- Mastering routing and processing.
- Audio post-production.