



Course Syllabus

Course Code	Course Title	ECTS Credits
MUTX-321	Recording Techniques	6
Prerequisites	Department	Semester
MUTX-140	Music & Dance	Fall/Spring
Type of Course	Field	Language of Instruction
Thematic Area	Music Technology	English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Dr. Haris Sophocleous	3 rd – 4 th
Mode of Delivery	Work Placement	Corequisites
Face-to-face	N/A	N/A

Course Objectives:

The main objectives of the course are to:

- Use the computer software for recording, editing, sound-processing and sequencing.
- Use various microphones and their placement relative to a specific sound source.
- Learn about the different approaches to recording that are demanded by unique musical situations.
- Use multitracking, editing and post-production techniques to enhance the quality of recordings in various scenarios.

Learning Outcomes:

After completion of the course students are expected to be able to:

- Have a solid theoretical foundation and practical knowledge of the technology and procedures used for music creation and production.
- Get involved in practical music production and post-production settings (in the recording studio environment as well as in field recordings).
- Strengthen their technical background and critical listening on mastering sessions.

Course Content:

- Setup a monitoring environment (monitor positioning, absorption material, etc.)
- Microphone types and their use (dynamic, condenser, ribbon)
- Microphones (polar patterns and placement)
- Proximity effect.
- DI boxes.
- Mic preamps and setup.
- Phase cancellation and polarity.
- Drums (placement, tuning tips, kick and subkick, top and bottom snare mics, room mics, hi-hat, toms, and overhead mics, mixing and panning)
- Guitars (direct recording, amp recording, acoustic guitar, stereo techniques)
- Bass (direct recording, amp recording, acoustic bass)
- Vocal recording (mic placement, pop filters, limiter, double vocals, backing tracks)
- Piano (mic placement, mono and stereo recording).
- Woodwinds and brass (recording the saxophone, brass section, etc.)
- Strings (strings acoustics, mic placement, etc.)
- Recording percussion.
- Recording electric instruments.
- Recording in stereo (X-Y configuration, ORTF, mic spacing, stereo mics).
- Recording session (talk back mic, audio leakage, click track, overdubs).
- Create a final mix.

Learning Activities and Teaching Methods:

Lectures; Discussions; Student participation; Class recordings; Class mixing; Videos; Exams.

Assessment Methods:

Attendance; Class assignments; Mid-Term recording/mix; Final recording/mix

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
<i>Audio Production Principles</i>	Stephane Elmosnino	Oxford University Press	2018	9780190699352
<i>Modern Recording Techniques</i>	David Miles Huber and Robert E. Runstein	Focal Press	2014	978-0-240-82464-2

Recommended Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
<i>Practical Recording Techniques</i>	Bartlett and Bartlett	Focal Press	2009	978-0-240-81144-4
<i>Mixing Secrets for the Small Studio</i>	Mike Senior	Elsevier Inc.	2011	978-0-240-81580-0