

Project No. Date 2025

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Proj. dep. Electronic

EOTSS Doc. CODE :

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EOTSS/Electronic/8013-EC/2025

Engineering office for Technology and Software Services



المكترب المندسي لخدمارت التكنولوجيا و البرمجيارت

# Sound Engineering: Basics to Advanced Techniques



#### Sound Engineering: Basics to Advanced Techniques Code: 8013-EC

#### Course Description:

Master the art and science of sound in this all-in-one course designed for beginners to advanced learners. Learn everything from foundational sound theory to live event mixing and post-production for film, TV, and media using industry-standard tools.

### **Technical Information:**

- Course Duration: 40 hours (Over 6 weeks)
- Level: Beginner to Advanced

Main Branch: United building - E Shams - Front NBE , El Siouf \_Alexandria Tel: 01102060500-01144470856



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- **Tools Used:** DAWs (e.g., Pro Tools, Logic Pro, Ableton Live), audio interfaces, microphones, mixers
- **6** Focus: Studio recording, live sound, mixing, mastering, post-production

#### of Target Audience:

- Aspiring sound engineers
- If Musicians and producers
- If Audio technicians and live sound professionals
- 🏭 Media creators and filmmakers

#### What Will I Learn?

- If Studio setup and sound capture techniques
- Quantum Deep understanding of EQ, compression, and mastering
- Note: Note:
- Image: Audio post-production and syncing with video
- Create broadcast-ready audio for any platform

#### Course Modules:

#### • Module 1: Introduction to Sound Engineering (6 hours)

- **J** Principles of sound: frequency, amplitude, waveforms
- 🔮 Understanding microphones, mixers, speakers
- Sound recording basics: acoustics, environments, and tools
- Introduction to DAWs and audio interfaces
- Module 2: Audio Recording and Mixing (8 hours)
  - 🏠 Setting up a home or professional studio
  - G Recording techniques for vocals, instruments, and ambience
  - Nicrophone types, placement strategies, polar patterns
  - 🔢 Basics of mixing: equalization, compression, and reverb

#### Module 3: Advanced Audio Techniques (8 hours)

• If Advanced mixing and mastering workflows

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المكتبب المندسي لحدمات التكنولوجيا و البرمجيات

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- Noise reduction and audio restoration
- Gurround sound and spatial audio production
- Sound design for film, TV, and video games

### • Module 4: Live Sound Engineering (8 hours)

- Live audio system setup for concerts and events
- Gamma Managing live mixes and monitor mixes
- K Real-time troubleshooting and problem-solving
- Andling wireless systems, RF interference, and mic feedback

# Module 5: Post-Production and Finalizing Sound (8 hours)

- Advanced audio editing software (Pro Tools, Audition, etc.)
- Addate the second second
- S ADR and syncing audio to video timelines
- 👲 Exporting and delivering files for web, broadcast, and film

# 🌾 Materials Included:

- Practice multitracks for mixing
- Sample audio stems (vocals, drums, instruments)
- 📜 Signal chain diagrams & studio setup guides
- DAW session templates for beginners and pros

# Requirements / Instructions:

- 📃 A computer with a DAW installed
- A basic audio interface and microphone recommended
- 💦 🞧 Headphones or studio monitors
- 🔹 🧠 Basic music/audio knowledge is a plus but not mandatory

# 확 Final Project:

- 🔒 Create a fully mixed and mastered audio track or soundtrack
- Sptional: sync audio to a short film clip using post-production techniques

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