

Diploma in Audio Engineering



OBJECTIVE

The Diploma course develops the practical skills and techniques required in current audio engineering industry. Practical classes and hands-on studio time are supported by a theoretical understanding, giving students a thorough knowledge of a broad range of audio production related issues.

WHO IS THIS COURSE FOR?

- Candidates seeking careers in the field of Audio Engineering.
- Individuals with previous industry experience wishing to expand their employment opportunities

COURSE OVERVIEW

Introduction to recording: This module develops an understanding of the recording and production process.

Digital theory: This module provides a rudimentary understanding of computer-based digital recording and video systems.

Basic sound theory: Focuses on the basic principles of sound and acoustics. Main topics: Fundamentals of sound, the ear and hearing, introduction to acoustics, frequency analysis, mix analysis.

Studio equipment and signal processing: This module examines the key components found in a professional recording studio. Main topics: Analog and digital equipment operation, audio console features, effects processing, dynamic range processing, noise reduction, equalization, cables and connectors.

Audio electronics: A sound knowledge of the fundamentals of electronic theory is essential to understanding audio and recording technology. Main topics: Basic electronics, specifications, decibels, standard operating levels, electronic and mechanical equipment alignment, system interconnection, balanced lines, occupational health and safety.

Digital audio technology: Used throughout the professional audio industry, digital sound technology has changed the work process of the professional engineer. Main topics: Digital recording studio processes, computer operation, MIDI theory, advanced ProTools, digital hardware, video/audio synchronization, working with total recall digital consoles, understanding advantages and disadvantages of digital equipment.

Live sound and musicianship: Focus on live sound system design and installation and musicianship. Main topics: Loudspeaker placement and design, live sound system tuning and fault finding, concert FOH systems, system set-up and operation, live recording and broadcast feeds.

Professional recording studios: This module focuses on recording, mixdown and mastering techniques. Main topics: Advanced signal flow, mixdown, advanced audio console operation, session planning, advanced stereo microphone techniques, working with a producer, recording various types of music, mixing for surround sound.

Audio post-production: Many audio engineers are employed in studios and post-production houses working with sound for motion picture and video production. Main topics: Film sound, film and video signal flow, synchronization, on-line and off-line sound editing, video signal flow, basic video editing, video-audio sync.

Acoustics: Focuses on acoustic principles and studio design. Main topics: Acoustic theory, studio monitoring, psychoacoustics, studio building fundamentals, creating an acoustic environment, room evaluation, live applications of acoustics, control room and studio design.

Digital audio editing: Introduces the hardware and software used in the virtual studio environment. Main topics: Digital audio theory, digital audio file formats, ProTools, Cubase VST and/or Logic Audio, system requirements, system configuration, software plug-ins, digital signal processing and computer skills.

Advanced studio studies: Focusing on advanced studio techniques and related subjects, this module aims to prepare students for the workplace. Main topics: Production techniques, arrangement basics, advertising, creating stereo and surround master tapes, studio etiquette, mixdown and session procedure, working in a critical listening environment.

Mastering and remixing: This section focuses on the critical link between recording and final CD manufacturing and on the processes that ensure maximum impact on the listener. Main topics: Advanced digital theory, mastering formats, mastering signal processing techniques, duplication process, how CD's work, mastering for audio, mastering for DVD, surround mastering and remix techniques.

Course Information

Qualification

Diploma In Audio Engineering

Duration

10 months Intensive/Fulltime
Minimum time commitment of 30hrs per week

Course Structure

Theory & practical lectures, research & individual practical assignment with studio time

Entry Requirement

Minimum age of 17 yrs old
Minimum Grade 12 or equivalent
Basic understanding of English

Start Dates

15 March 2011(10am-1pm)	AEDFE 0311
14 June 2011 (10am-1pm)	AEDFE 0611
14 June 2011 (2-5pm)	AEDFT 0611
11 October 2011(2-5pm)	AEDFE 1011
11 October 2011(10am-1pm)	AEDFT 1011

Fee Structure

Registration Fee	15,000 Baht
Full Tuition Fee	210,000 Baht
Student Visa App Fee	8,000 Baht
Examination Fee	23,500 Baht

- Fee are subject to change without prior notice