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 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

13 March 2012 (10am-1pm)	AEDFE 0312
19 June 2012 (2-5pm)	AEDFE 0612
19 June 2012 (10am-1pm)	AEDFT 0612
9 October 2012 (10am-1pm)	AEDFE 1012
9 October 2012 (2-5pm)	AEDFT 1012

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

- Fees are subject to change without prior notice

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.