UNIVERSITI TEKNOLOGI MARA

CTB453: RECORDING TECHNOLOGY

Course Name (English)	RECORDING TECHNOLOGY APPROVED
Course Code	CTB453
MQF Credit	3
Course Description	This course aims to provide an overview in various aspects of recording technology. This course will provide students with a general understanding of the recording technology including studio and live recording processes and handling, utilization of microphone, the mixing console and signal flow, and basic concepts of sound. The project that the student will produce will venture into the layout of stage and traditional recording studio as well as software, and will provide them with an overview of the various job descriptions as they relate to the fields of music, film, sound recording, and digital media fields.
Transferable Skills	CREATIVE AND INNOVATIVE: Demonstrate the ability to dream, imagine and visualize INDEPENDENT AND CRITICAL THINKER: Demonstrate ability to apply creative, imaginative and innovative thinking and ideas to problem solving
Teaching Methodologies	Lectures, Blended Learning, Studio, Demonstrations, Practical Classes
CLO	CLO1 Demonstrate studio design and operation, recording principles and its basic application CLO2 Assume responsibilities in the process of studio recordings CLO3 Organize a range of sound equipments and set up a functional sound system
Pre-Requisite Courses	No course recommendations

Topics
1. Introduction and Course Overview/ Brief History of Sound Recording 1.1) Introduction of the study
2. Mediums, Technology and Recordings 2.1) Recording Equipment
3. Live sound basics – Equipment, principles 3.1) Live recording Equipment
4. Live vs. studio environment Introduction to Acoustics 4.1) Acoustic recording equipment
5. Fields of recording in the arts industry Waves, Frequency, Ratio 5.1) Recording industry
6. Overtones, Harmonics, Amplitude and Dynamics 6.1) Recording process
7. Live recording practice -Microphone Placement, ADAT, Cables, Rack Gear 7.1) Recording Process
8. Basics of Pro Tools ; Recording , Editing, Mixing 8.1) Recording process
9. Studio Components and Design. Multi track Recording 9.1) Recording Process
10. Cables, microphones, click tracks, talk -backs 10.1) Recording equipment

11. Analog/ Digital Conversion 11.1) Recording Process
12. Nyquist Frequency 12.1) Recording process
13. Anti - Aliasing 13.1) Recording process
14. Recording and Pro Tools Editing 14.1) Multi track recording software

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment

Assessment Type	Assessment Description	% of Total Mark	CLO
Assignment	Studio Project 1	10%	CLO1 , CLO2
Assignment	Research and analysis process on recording technique and equipment	20%	CLO1
Individual Project	recording process and project ideas	30%	CLO1 , CLO2

Reading List

Recommended Text

- **Bartlett, B 1999, *On-location Recording Techniques*, Focal Press Boston**
- **Doane, Mary Ann 1985, *Ideology and the Practice of Sound Editing and Mixing*, edited by E. Weis and J. Belton Ed., Columbia University Press New York**
- **Miranda, Eduardo 2002, *Computer Sound Design: Synthesis Techniques and Programming (Music Technology)*, Focal Press Oxford**

Reference Book Resources

- **Huber, David M. and Robert E. Runstein 2005, *Modern Recording Techniques*, 7th edition Ed., Focal Press Boston**
- **Shuker, Roy 2005, *Sound; Sound Production; Sound Recording; Sound Reproduction; Sound Systems*, 2nd Edition Ed., Routledge New York**

Article/Paper List: This Course does not have any article/paper resources

Other References: This Course does not have any other resources