

Course title: TECHNICAL EAR TRAINING 1

Course code: 19016112

Year/term: Year 2/term 2

Credit points: 4

Contact time: 2-hour lecture & 4-hour lab

Prerequisite: None

Course Learning Outcomes

C1. After training, students recognize the temporal, dynamics and spatial attributes of sound.

C2. After training, students recognize the Tonal Balance and Equalization.

C3. After training, students recognize the spatial attribute and reverberation, dynamic range control.

C4. After training, students recognize distortion and noise, amplitude envelope and audio edit points

Generic learning outcome

G1. students are able to communicate and speak well in public

G2. students are responsible for all assigned work on time

G3. students are able to work as team.

G4. students can use their knowledge to analyse, develop and create their own work.

G5. students have life-long learning skill.

G6. students has a good skill in English communication, especially, the technical communication relates to sound and acoustic engineering

Learning & Teaching Activities

Teaching activities	Learning outcome	Remarks
Lecture	C1,C 2,C 3	Every week
Lab	C1, C2,C 3,C 4	Every week

Assessment

Name	%	Learning outcome	Remarks
Listening Quiz	80	1, 2, 3	Every week
Attendance	10	1, 2, 3	
Class performance	10	1, 2, 3, 4	

Feedback

Activities	Remarks
Answer Assignment	Every week
Announce Midterm score	week9

Time table

Week no.	Lecture topics	Lab topics
1	Introduction to ear training and critical listening, Human ear and voice	No lab
2	Parametric EQ	EQ training - One band
3	Critical listening - EQ	EQ training & quiz - One band
4	Critical listening - EQ	EQ training & quiz - One band
5	EQ training & quiz - 2 band	EQ training & quiz - 2 band
6	EQ training & quiz - 2 band	EQ training & quiz - 2 band
7	EQ training & quiz - 3 band	EQ training & quiz - 3 band
8	EQ training & quiz - 3 band	EQ training & quiz - 3 band
9	Dynamic Range Control	Compression training & quiz - attack time
10	Critical listening - Compression	Compression training & quiz - attack time
11	Critical listening - Compression	Compression training & quiz - release time
12	Critical listening - Compression	Compression training & quiz - release time
13	Compression training & quiz - ratio	Compression training & quiz - ratio
14	Compression training & quiz - Attack, release & ratio	Compression training & quiz - Attack, release & ratio
15	Compression training & quiz - Attack, release & ratio	Compression training & quiz - Attack, release & ratio