

SYLLABUS

SEMESTER- 6

Sound Recording & Sound Design

SP.PAPER-3

Studio Recording Technique

Credits-3

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1. Where and how the recordings are made –

- 1.1 Recording room and control room ,
- 1.2 Studio & control room acoustics
- 1.3 Digital signal path, I/O Devices

2. Transducers -

- 2.1 Studio Microphones- Large-diaphragm Condensers, Small-diaphragm Condensers, microphone with variable polar response, Uses of condenser and dynamic microphone, selection and placement
- 2.2 Studio monitors-Active and passive monitors, Near field and Far field monitors
- 2.3 Use of patch bay- configuration, full normal, half normal, Non normal(Thru)

3. Mixing boards and control surface

- 3.1 Mixer channel strip-Types of mixer channel, Inserts, Auxiliary sends, Pre-fader and post-fader, Microphone preamps, aux sends, aux send output, panning, Output and group fader
- 3.2 Hardware versus software mixers and control surfaces – analog vs digital control surface, Using digital hardware mixers and control surfaces
- 3.3 I/O interfacing- Interface or buss routing, Mono or stereo ,MIDI channel

4. Audio Signal Processors -

- 4.1 Types of audio processor & plug ins - Time domain, amplitude domain and frequency domain processor
- 4.2 Dynamics- compressors/limiters- How to use compressors/limiters—basic controls in DAW, Expanders/noise gates

- 4.3 FX Delay- Long and medium delays, Short delays—chorusing, doubling, phasing, and flanging FX Reverb- Reverb devices, Reverb control parameters

5. Sound Editing

- 5.1 Concept of sound editing - removing unwanted portions, adding some new ones, audio as discrete files, Join pieces of audio to create meaningful communications
- 5.2 The Process of Editing-Basic Edit Tools, Difference between destructive and non-destructive editing
- 5.3 EQ parameters, Graphic EQs, Shelving EQ, High- and Low-Pass Filters, Analog and digital EQs

Reference Books

1. The Art of Digital Recording by Steve Savage
2. Mixing and mastering by Steve Savage
3. Modern Recording Technique (5th edition) by Huber and Runstein
4. Microphone Technology and Technique by John Borwick