SYLLABUS

5th SEMESTER

SOUND RECORDING AND SOUND DESIGNING

SP. PAPER-2

ANALOG AND DIGITAL RECORDING

Credits-3

L	T	P
3	0	10

1. Introduction

1.1 Invention of sound recording, Purpose and importance of sound recording

1.2 Vocal and voice call recording, Sound recording in film and TV production

1.3 Quality of recording, audio quality fundamentals

2. The Physics of Sound (Acoustics)

2.1 Principles of Acoustics, Psychoacoustics

2.2 Room modes: Axial, Tangential and oblique modes, Room

2.3 Small room and large room acoustics

3. Transducers

3.1 Analogy of ear and microphone

3.2 Types of microphone, Working principles, Polar patterns, sensitivity, specifications

3.3 Monitoring with head phones and loud speakers

4. Types of Recording

4.1 Analogue recording theory, Advantages of analogue recording

4.2 Digital recording principles, Advantages over analogue recording

4.3 Digital audio workstation, OSP

5. Audio Production Techniques

5.1 Audio recording system: Single system, Double system; Controllable and Un-controllable noise

5.2 Microphones: Shotgun, Dynamic and lavaliere microphones

5.3 Additional gears: Preamps, Audio cables, Test gear

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