SYLLABUS

SEMESTER-1

BASIC-3

SOUND BASICS (PROUCTION, REPRODUCTION & BROADCAST)

Credits: 3

L	Т	Р
2	1	0

SOUND PRODUCTION

1. What is sound?

Role of sound is in our life - Sources of Sound - Natural and Man-made sound - Mechanism of sound production - Musical sound - How do we hear sound?

2. The science of sound

Nature of sound - Types of sound - Characteristics of Sound: Wavelength, Amplitude, Time-Period, Frequency and Velocity or Speed - Elements of Sound: Pitch, Duration, Dynamics, Tempo, Timbre, Texture and Structure

SOUND REPRODUCTION

3. Audio Technology

Reproduction of Good Sound: Fidelity-Intelligibility-Loudness; Simple PA system to today's events; Components of PA system: microphones, stands, cables, amplifiers, mixers, loudspeakers, monitors and related equipment; Choosing right PA system; Audio Technology: It's past, present and future

SOUND BROADCAST

4. Radio Broadcasting

Introduction to Radio as a medium of communication - Historical development of radio broadcasting - Radio broadcasting and reception Technology; AM, FM, Analogue and digital transmission, Satellite, DTH, Internet & Mobile technology

5. Radio Program Production

Program formats: Talk, news, interview, music, drama, feature, documentary, docudrama, phone-in, discussion and games etc.

Radio studio and Production: Studio set-up, Studio Acoustics, Editing programs - Radio as a new art form: Radio acting, Sound effects, Radio music

Reference Books:

- 1. Live Sound basics: Rick Wallace
- 2. PA System Guide: by Tejas Mallela
- 3. Digital Video and Audio Broadcasting Technology
- 4. Introduction to Radio production: by Oberiri Destiny Apuke

SOUND REPRODUCTION PRACTICE

Credits: 2

L	Т	Ρ
0	0	4

- 1. Basic Sound Equipment
 - Function of Microphone, Amplifiers, Loud Speakers
 - Connecting Cables, XLR 3-Pin Connectors
 - Chain for reproduction of sound
- 2. Auxiliary Input to any speaker system
 - · Function: To allow input sound from any media device
 - Types of Aux Inputs: RCA or 3.5 Aux IN
 - Joining the media player to the Aux-Input Port with 3.5 Aux audio cable
- 3. Basic Terminology & their function
 - Amplifiers, Channel, Delay, Equalizer, Fader, Jack, Level,
 - Line-in (Input / Return), Line-out (Output / send)
 - Master volume, Mixer, Monitors, Pan, Phantom Power
 - Return, PhonoPlug / Jack, XLR Connector
- 4. Operating PA System
 - Function of different Blocks: Microphone, Mixtures, Voltage Amplifier and Processing Circuits, Driver and Power amplifiers