

Syllabus for Live Sound and Lighting Design



Module 1 (Live)

- Concepts of sound- Sound wave and properties
Wave form components
- Microphones and usage
- Microphone Techniques
- Music Instruments
- Live mixing tips

Module 2 (Live)

- Wireless system- Types of wireless microphones, Manufactures and frequency bands
- Digital audio- Audio- Sampling and AD conversion, Bit depth, Introduction to Digital audio Devices.
- Signal processors- Spectrum processors, Time signal processors, Amplitude & Noise processors

Module 3 (Live)

- Introduction to Backline and connecting procedure
- Audio cables and connectors
- Amplifiers and speakers
- Crossover

Module 4 (Live)

- Analogue Console- Workflow, Gain Staging, Patching
- Show files Management. Creating Tech Rider
- Digital Console- workflow, Operational Overview, Patching, Mixing tips
- Multi track recording- Record using a DAW

Class Exercises/Projects: (Live)

Create a 2-way stereo crossover pre-set

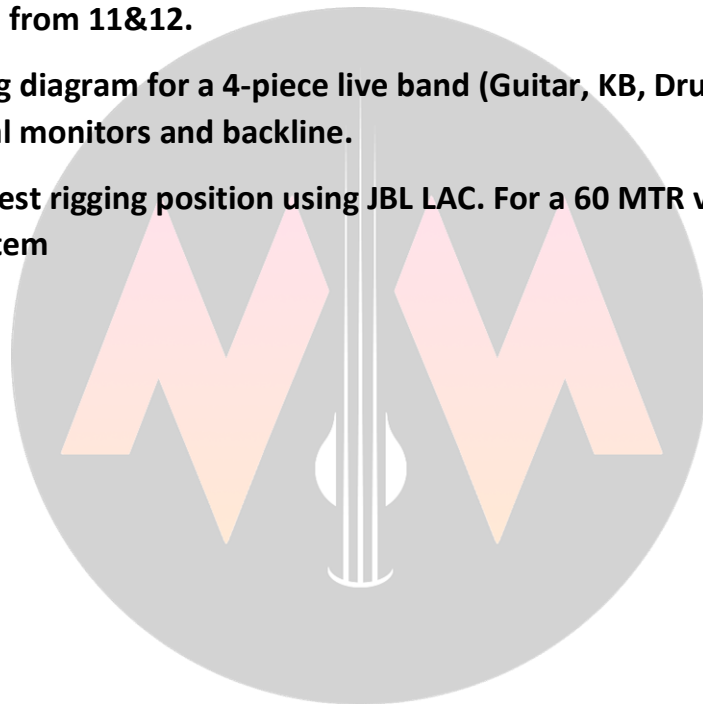
**Create a show file using the given tech rider sample for a music band
Using the provided tech rider**

**Create a 3-way stereo cross over pre-set for a custom made speakers with
stereo full range Delay stack for active speakers.**

**Create a show file for a conference with 10 gooseneck microphone and also
create main out, monitor out from aux 1 & 2 broadcast out from aux 7&8,
Translator out from 11&12.**

**Draw a routing diagram for a 4-piece live band (Guitar, KB, Drums and Vocal)
with individual monitors and backline.**

**Find out the best rigging position using JBL LAC. For a 60 MTR venue with JBL
Line array system**



Module 1 (Lighting)

- Basic of Lighting
- Designing Concepts
- Lighting Designing for Drama
- Lighting Designing for Music

Module 2 (Lighting)

- Types of Stages
- Types of Lights
- Connection Procedure
- DMX Protocol

Module 3 (Lighting)

- Connection Procedure
- Operational Overview of mixer
- Designing a show

Class Exercises/Projects (Lighting)

Connecting various types of Lights to the console and make them work as desired

Design and placement of lights for a Drama/Music Band