Music Technology Summer Assignment Issue Date: July 2024  
Due Date: 2nd September 2024

Practical Sound Reinforcement

Intro:

As part of the course, you will all be learning how to set up a live PA (Public Address) system and will be required to understand the technical requirements of setting up a PA system for performance. This will involve an understanding of similar skills to those in a rehearsal situation or in a recording studio but there are different pressures and a different environment to consider. In front of an audience, the balancing of levels needs to be correct at the time as it cannot be corrected afterwards and problems such as monitoring or feedback may need to be resolved.

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**Your completed report should be submitted to your tutor on your first day of induction week at the beginning of September.**

Task 1

* Using three different sources, compile a list of the equipment used for providing live sound reinforcement for a four-piece band. The band will provide their own equipment so you are only specifying equipment for the PA system including cables.
* Write down a comprehensive list of equipment and what you think they are used for. Send to bethmc@shrewsbury.ac.uk on the first day of your induction week.

Tips for Research:

Music Technology – Summer Assignment 349 – Planning a Career in Music

- When carrying out research work like this for your RSL Level 3 course detail is key. The more detail you can add to your work the better your chance of achieving a higher grade.

- Be sure to use reliable sources. Good online examples are listed below. Steer away from using unreliable sources such as online forums and places where people can add false information such as Wikipedia (however, this website can be a good starting point).

- Avoid plagiarism (copying directly from sources of information or copying directly from your friends). This could land you in serious trouble with exclusion from the course.

- Use real books. There are plenty in the college library relating to music and music technology.

- Add a bibliography at the end of your report. This will list all of the books, journals, magazines and websites you used to create your work.

**Usually you will only ever get one chance to submit a piece of coursework. Therefore make it your best. You can ask a tutor to check your work before submitting it to make sure it is meeting the appropriate criteria. It is essential that this is done well before the assignment deadline.**

Useful Resources:

www.bbc.co.uk/introducing

uk.music-jobs.com

www.careersinmusic.com

[www.live-recruitment.co.uk](http://www.live-recruitment.co.uk)

Continue on the next page for part 2 of this assignment. Thank you.

Digital Recording

Digital recording offers flexibility and editing options that aren’t easily available (if at all) with analogue recording. The possibilities for manipulating sound sources are nearly endless and by recording their own sounds at source and editing samples, musicians and engineers can create new sounds that will enable them to create original music. In this project you will be exploring recording technology & techniques.

Task

Create a portfolio which demonstrates your understanding of the following, the work must be in your own words and reference where you found the information:

* 1. A definition of microphone
  2. Explain how a dynamic microphone work – a good example we use here is the Shure SM58.
  3. Explain how a condenser microphone work, a good example that we use here is the Rode NT2A.
  4. Explain what a Direct Injection(DI) box is and why you might use one, a good example is a Behringer Ultra DI.

Once completed share your portfolio with ianr@shrewsbury.ac.uk

Useful resources:

<https://www.soundonsound.com/microphones-miking#:~:text=They%20use%20a%20diaphragm%20attached,louder%20output%20than%20dynamic%20mics>.

<https://www.bbc.co.uk/bitesize/guides/z9f92nb/revision/4#:~:text=In%20a%20moving%2Dcoil%20microphone,magnet%2C%20so%20a%20potential%20difference>