**Sound design**

**Lab 5: Audio Effect Programming**

**Instructions:**

Implement a multiband dynamic range compressor audio effect. The effect should be built using the WebAudioAPI.

You can use the built-in DynamicsCompressor and BiquadFilter nodes, or any other nodes you wish, as well as creating your own AudioWorklets. Support will be provided in the lab sessions, but this can also be done on your own time.

Where possible, include user-tunable parameters in your effect. You should also customize the interface and comment your code to highlight that it is your own.

**Turn In:**

Using the online submission system, submit a ZIP archive containing:

• **Audio files** of your effect in action (at least two processed samples), *plus* original version of any source material used.).

• **Commented** **Code** used to run the effect. Please make your code legible and easy to understand!

• **PDF Report**, 3 or 4 sides of A4 total, explaining the multiband compressor that you have created, and how any existing code was modified. Also describe any parameters used to control the effect. Include one or two plots showing the effect’s operation. You can analyse the result in MATLAB, SonicVisualiser or any other tool to generate plots.