**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

**FACULTY OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**MAJOR PROJECT**

**ZEROTH REVIEW REPORT**

| **Project Batch No** | | SB02 | | | |
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| **Project Coordinators/**  **Professor**  **In-charge** | | Dr. U. Sowmiya  Dr. R. Brinda | |  | |
| **Project Guide** | | Dr. C. Naveen | | | **Phone Number** |
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| **Title of the Project** | | Digital Watermarking of Audio Signals for enhanced signal protection. | | | |
| **Objective** | | To protect an audio signal or audio file by encrypting it with a watermark which will ensure that each audio signal transmission and reception is protected from both ends of the communication. | | | |
| **Abstract** | | In today's world we know the importance of encryption and privacy and with data being the most prized possession it is more important than ever to protect that data. Therefore for our project we are aiming at using this as our principal objective for protecting signal and audio during transmission. To do this will use digital watermarking and using a digital image/unique code superimposing the signal and then transposing that image as a watermark on the audio signal.  We believe that doing so will uniquely enhance the audio signal many times. | | | |
| **Work Plan** | | The main 3 steps for the work plan are:   1. Researching signal processing. 2. Researching tools that are used in watermarking signal (eg. Least significant bit method, Fourier method for signal masking...etc) 3. Then the idea is to try different methods to see which works best and allows the best practice.   *Subsequent steps will follow as the project progresses and therefore are not mentioned here*. | | | |