



**Ahmedabad
University**

ECE501 Digital Image Processing
Digital Image Watermarking and Extraction

Date of Submission: 11/10/2025

Course Information

Course faculty	Prof. Mehul Raval
Group Number	20

Student Details

Roll No.	Name of the Student
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Work done in past week:

- Research regarding the techniques to be used for watermark embedding.
- Explored few techniques like **DFT**(Digital Fourier Transform), **DCT**(Digital Cosine Transform), **SVD**(single Value Decomposition), **DWT**(Digital Wavelet Transform)
- Decided to use DFT, as of now, and explored its methodology and implementation
- Referred to different codes of DFT on github
- Implemented the code to generate results, all for embedding the watermark into the image

Work to be done in next week:

- Explore more DFT codes and techniques in order to compare results and select the best fitting code
- Research on validation techniques of the embedded watermarks in the image