

Department of Computer Science and Engineering

National institute of Technology calicut

CS4043 IMAGE PROCESSING

Exercise Set 4

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1. Perform following operations on the given image.

- (a) Find the Walsh Transform.
- (b) Find the Hadamard Transform.
- (c) Find the Haar Transform.
- (d) Find the Discrete Cosine Transform.
- (e) Find the KL Transform.

Remove some transform coefficients and reconstruct the original image.

Discuss the energy compaction properties of above transform.

Which one will be better for image compression ? **[10 marks]**