

# E9 241 Digital Image Processing

## Assignment 05

**Due Date:** November 23, 2022 - 11:59 pm

**Total Marks:** 30

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**Instructions:**

- To extract deep features, you can use any open-source deep learning libraries like PyTorch, TensorFlow, Keras, etc.
  - Try to use Google Colab to avoid computational issues on your laptops.
  - Along with your code, also submit a PDF with all the results and inferences.
  - Put all your files into a single zip file and submit the zip file. Name the zip file with your name.
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**Q1. Using pre-trained DNN's:** In this assignment, you will learn to use a pre-trained deep neural network. Load any pre-trained model (ResNet, etc) and extract deep features from the last fc layer. Then compute the image classification accuracy for the test set using NN/KNN classifier.

**(30 Marks)**