

# ERA IITK

## Midsem Break Learning - Image Processing

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### Instructions

- You are expected to attempt all tasks.
- Make a folder of imageProcesssing in ERA-IITK/learning101 that you previously forked from the GitHub. Keep pushing your day to day learning in you repo.
- Write explanation and documentation wherever needed.

**Deadline: March 30**

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### Image Processing

- What is an image?
- What is brightness, contrast, saturation, and hue of an image?
- What is the difference between image processing and computer vision?
- Learn about various color-spaces and bit-wise operations in OpenCV and try to implement skin detection.
- Learn about contours in OpenCV and use the previously implemented skin detection with contours.
- Read and practice Chapter 1 (except PCA) of the book Programming Computer Vision with Python by Jan Erik Solem (can be found in ERA-IITK/res)
- Write a code to detect best Armour Plate in the given image. Draw a rectangular box around the armour. (Image can be found in ERA-IITK/res)

