Department of Electrical and Information Engineering
Faculty of Engineering
University of Ruhuna

Mini project Instructions

Course	**Computer Vision and Image Processing**
Course Code	EC6206
Duration	14 weeks
Outcomes	The aim of the mini project is to, • Apply theoretical knowledge of image processing and computer vision to a practical problem. • Encourage creativity and research-oriented problem solving. • Develop basic implementation and reporting skills.

Project Requirement
The group must propose a Mini Project that primarily focuses on Image Processing and Computer Vision techniques.
The project must consist of **at least 65% image processing and computer vision components.**

Example Project Areas
Students may select topics from, but not limited to, the following areas,

- Image segmentation and object detection
- Image enhancement or restoration
- Feature extraction and pattern recognition
- Medical image analysis
- Face, gesture, or motion detection
- Image classification or recognition using deep learning
- Optical character recognition (OCR)
- Video-based analysis or tracking
- Image-based measurement systems (e.g., counting, defect detection, etc.)

Group Selection Criteria

- Each group can have **up to 4 members.**
- Students may **freely select their own group members.**
- Groups can include members from **both Electrical and Computer Engineering departments.**
- Once selected, the same group will be **considered for future course group work** as well.
- After finalizing your group members, **fill out the Google Sheet shared with you using the provided link,**
- **When you update the Google Sheet, merge the columns for *Group Name*, *Project Title*, *Group No.*, and *Proposal Acceptance Status* before submission.**

👉https://docs.google.com/spreadsheets/d/1eGfdjbWM1fCQ7M69Nf4iWIWqFbtIXXte7FQTpHXfczw/edit?usp=sharing

Note: Groups must be finalized **before submitting the project proposal. The deadline for selecting the group will be 4th of February.**

Proposal Format

1. Each group must prepare and submit a **Mini Project Proposal** using **only the LaTeX template provided**.
   - The template already includes all required sections and formatting.
   - **Do not modify** the structure, margins, or layout.
   - Don't remove the "back to table content" function from the LaTax
   - **Words documents are not allowed.**

2. The proposal must focus on **Image Processing and Computer Vision** concepts.
   - At least **65% of the project content** must involve image processing or computer vision–based components.
   - AI and plagiarism content must be less than 20%.

3. You may include **sketches, diagrams, or figures** if necessary to explain your idea clearly. (if you use sketches, diagrams, or figures or table, add table of contents for each one)

4. **Follow the word limits** indicated in each section of the LaTeX template strictly.
   - Exceeding or falling far below the limit will result in **mark deductions**.
   - Each section has a recommended range.

5. The **clickable Table of Contents** in the template must remain functional.

6. **Proposal length:** The complete proposal should be **6-20 pages** (including figures and table).
7. Use clear academic writing and avoid plagiarism.
8. Save your final proposal as a **PDF file** generated from the LaTeX source.
9. Submit the **PDF version** of the proposal.
   Submission date will be **15th of February. Submission box will be given by your ELMS.**
   Rename the PDF file with your group number before submitting the report to ELMS.