



**FACULTY OF SCIENCE AND TECHNOLOGY**

**COURSEWORK FOR THE BSC (HONS) COMPUTER SCIENCE; YEAR 2  
BSC (HONS) INFORMATION TECHNOLOGY; YEAR 2**

**ACADEMIC SESSION AUGUST 2015;**

**CSC2014: DIGITAL IMAGING PROCESSING**

**DEADLINE: 27 NOVEMBER 2015**

**STUDENT NAME:** \_\_\_\_\_

**NRIC/PASSPORT NO:** \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES**

- This assignment will contribute 20% to your final grade.
- This is a group (up to 3 people) assignment.

**IMPORTANT**

The University requires students to adhere to submission deadlines for any form of assessment. Penalties are applied in relation to unauthorized late submission of work.

- Coursework submitted after the deadline but within 1 week will be accepted for a maximum mark of 40%.
- Work handed in following the extension of 1 week after the original deadline will be regarded as a non-submission and marked zero.

**Lecturer's Remark** (Use additional sheet if required)

We..... (Name) .....std. ID received the assignment and read the comments..... (Signature/date)

**Academic Honesty Acknowledgement**

"We .....(Name) verify that this paper contains entirely our own work. We have not consulted with any outside person or materials other than what was specified (an interviewee, for example) in the assignment or the syllabus requirements. Further, we have not copied or inadvertently copied ideas, sentences, or paragraphs from another student. We realize the penalties (*refer to page 16, 5.5, Appendix 2, page 44 of the student handbook diploma and undergraduate programme*) for any kind of copying or collaboration on any assignment."

..... (Student's signature / Date)

[This paper contains ONE questions printed on ONE page]

## **Question:**

- 1) Give your team a team name.**
- 2) Select a topic from the list:**
  - a) Image Mosaicing
  - b) Face Detection and Blurring
  - c) Localization of License Plate
  - d) Object Removal and Image Inpainting
  - e) Colour Image Segmentation
  - f) Video-based Object Tracking
  - g) Automated Noise Filtering with GUI
  - h) Counting Objects (Human / Vehicle) in an Image
  - i) Vision-based Virtual Keyboard
  - j) Occupancy Detection
- 3) Start to investigate and develop the application / demo.**
- 4) Create a website to present your work. The website must contains:**
  - a) An introduction to the topic.
  - b) Delegation of tasks (everyone must involved in coding something).
  - c) Review of related work with proper citation.
  - d) Methodology
  - e) Work done
  - f) Results and discussions.
  - g) Your code (so your classmate can download and run the code).

## **Evaluation:**

- 1) Investigation / Literature Review [25%]**
  - a) Citation
  - b) Clarity
  - c) Comparison
- 2) Application / Demo [50%]**
  - a) Completeness
  - b) Algorithm
  - c) Originality
  - d) Quality
- 3) Website [20%]**
  - a) Organisation of Information
  - b) Clarity of Explanation
  - c) Presentation of Results
- 4) Peer Review [5%]**

~ END OF PAPER ~