

## **BEC 30303 PROJECT GUIDELINES**

**(20% OF TOTAL MARKS)**

This project guidelines provides an opportunity for you to explore **application of Computer Architecture and Organization, BEC 30303 course using DE2 board**. You will be working with other class members as part of a team. **Maximum four (4) members in one group** will be **formed in Week 2**, in plenty of time for you to meet, plan, and work together as a team. Each group are required to submit a well-organized **proposal of one to three pages in length**. **All proposal must be approved by your lecturer**. The proposal should clearly describe the project proposal to be undertaken, including the contents to be covered.

**Your project proposal must fulfill the following requirements.**

1. DE2 board as your main board to show final result.
2. To solve non-linear equation
3. Your proposed equation is unique as compare to others group.

Three components of this project:

<b>Project Components:</b>	<b>Due Date:</b>
1) Project Guidelines	W1
2) Proposal submission	W3
3) Final Presentation and report submission	W11 – W12

### **A. PROJECT PROPOSAL**

1. Title of Project Proposal:
2. Team members:
3. Introduction and Overview
  - a. Objective
  - b. Scope
  - c. Proposed equation
4. Description of Project
  - a. System Architecture (if necessary)
  - b. Diagram
5. Expected Outcome
6. Conclusion and references.

## **B. PRESENTATION GUIDELINES**

Plan to give a **15 minutes of presentation, with time for questions and discussion**. Presentations should be self-contained, and should be clear and precise. Briefly introduce the topic including any background information, describe the contents of the topic, analyze the literature and write the conclusion of your assignment. The following format is suggested:

1. Title. Name the assignment and all the team members.
2. Outline. Summarize the full presentation.
3. Introduction. Introduce the topic of your assignment. Provide any material/diagram necessary to understand the presentation.
4. Describe the body/main point of your assignment.
5. Timing diagram and analysis.
6. Conclusion.
7. Questions and discussion.

## **C. FINAL REPORT GUIDELINES**

The final report should be neat, readable, and self-contained. Also, it should be written with the readers in mind. Any class member should be able to understand your report, and benefit from the results you obtain. Therefore, you should include adequate references and/or background materials and you should use tables, diagrams, graphs, figures, and portions of printouts to enhance readers' comprehension of your project.

The following format is suggested. You don't have to follow it exactly. Some sections may not be needed, or additional sections may be necessary. In all cases, please type and paginate your report!

1. Abstract. It comes first in your report, but you write it last.
2. Introduction. Include background material and discuss the scope and limitations of your assignment.
3. Analysis and Discussion. The body of your report. It is clear that an analysis of the literature has been used to support the statements made. This includes the methodology used. Be sure to fully describe any figures, tables and timing diagram you include.
4. Conclusions. Summarizes the findings adequately, and draws appropriate conclusions.
5. Recommendations, especially for future work and unsolved problems.
6. References (must always be included), annotated if possible.
7. Follow IEEE writing format

**\*Format of your report is follow the IEEE conference paper which will provided by your lecturer.**

#### **4. GENERAL GUIDELINES AND MARKING SCHEME**

Grading of written reports and presentations will be based upon substantive content, appropriate organization, presentation time, and effectiveness of the presentation and report. Multiple errors in grammar and spelling are unprofessional and detract from the clarity of your report or presentation and will be graded accordingly, so use a spell checker!

**NOTE: Plagiarism is stealing or passing off the ideas or words of another as one's own -- using material without crediting the source. This is prohibited behavior and will not be tolerated.** Take the time to properly cite material written by someone else -- include references. Please refer to **assignment evaluation form for marking scheme.**

#### **5. LABORATORY**

You are allow to do experiment using DE 2 board at these 2 laboratories from **8:00 am until 5:00 pm every day from Week1 until Week10**. The Assistant Engineer is **Mr Ayoub Kasno**. **Notice: You are not allow to borrow DE2 board from laboratory and doing your project at home.**

- 1. Rapid Prototyping Laboratory, C2**
- 2. Computer Architecture Laboratory, C2**

#### **6. RESOURCES**

[ftp://ftp.altera.com/up/pub/Altera\\_Material/Laboratory\\_Exercises/Computer\\_Organization/DE2/](ftp://ftp.altera.com/up/pub/Altera_Material/Laboratory_Exercises/Computer_Organization/DE2/)