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|  | **BAHRIA UNIVERSITY**  **(Karachi Campus)**  *Department of Software Engineering*  **Lab Project – FALL 2022**  **COMPLEX ENGINEERING PROBLEM** |

Course Title: **Computer Architecture and Logic Design**  Course Code**: CEN 221**

Class: **BSE – 3(A/B)** Shift: **Morning**

Course Instructor: **DR.Sorath Hansrajani** Date: **25th November, 2022**

Lab Instructor: **Engr. Ramsha Mashood** Max. Marks: **30 Marks**

**Instructions:**

1. **This is a Complex Engineering Problem Lab Project.**
2. **Demonstration of Project will be on the week before Theory Exam.**
3. **Report will be submitted on LMS in given Time Slot.**
4. **If you submit your Report after the given deadline then 1 Marks will be deducted for the late submissions.**
5. **Group Members Should be 3 or 2.**
6. **Presentation must be of 5 min for project demonstration.**

**Lab Project Task:** **[15.0 marks]**

The Student should fulfill the following requirements in their lab project.

1. Create a Simple Program Using MIPS assembly Language or design any hardware using logic gates and IC’s.
2. It’s essential to use some features, we learned in our lab.
3. If making hardware project the component specification document is compulsory.
4. Circuit must be simulated using multisim.
5. Language should be Assembly.
6. Implement Customer based project or implement some new idea.

**Lab Project Report: [5.0 marks]**

**Lab Project Proposal: [5.0 marks]**

**Lab Project VIVAH: [5.0 marks]**