**CPE166 Advanced Logic Design**

**Lab 5 Report**

**Student Name:**

**Date:**

**California State University, Sacramento**

1. For Monday CPE166 lab students, submit your lab reports to cpe20201@gmail.com,

Lab instructor: Dhwanit Arunkumar Juneja
2. For Tuesday CPE166 lab students, submit your lab reports to cpe2020tue@gmail.com

Lab instructor: Jonghee Sang

1. For Thursday CPE166 lab students, submit your lab reports to cpe20204@gmail.com

Lab instructor: Harped Sidhu

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**Lab Report Evaluation**

Lab Instructor Name: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_ Final Lab 4 Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluate each component based upon the following criteria.

Your final lab grade = 100 –( total of grade deduction ).

**If more than 100 points are deducted, your lab grade will be 0.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Poor** | **OK** | **Weight** | **Grade Deduction** |
| Title Page , Table of Contents | [ ]  Missing or not Following Guideline | [ ]  Fully Following Guidelines  | 2 |  |
| Spelling and Grammar | [ ]  Many Errors | [ ]  Minor or  No Errors | 6 |  |
| Introduction | [ ]  Many Errors[ ]  No Introduction | [ ]  Minor or  No Errors | 3 |  |
| Conclusion | [ ]  Many Errors[ ]  Missing  Conclusion | [ ]  Minor or  No Errors | 3 |  |
| Note:Each spelling or grammar error will result in a deduction of 1 point.The lab instructor needs to list the page numbers and paragraph numbers below to indicate the source of spelling and grammar errors, and copy the source of the errors.1. Page #, Paragraph #, Error Source: “ …………..”
2. Page #, Paragraph #, Error Source: “ …………..”
3. Page #, Paragraph #, Error Source: “ …………..”
4. Page #, Paragraph #, Error Source: “ …………..”
5. Page #, Paragraph #, Error Source: “ …………..”
6. Page #, Paragraph #, Error Source: “ …………..”

If there are more than 6 errors listed above, the lab instructor will select the "poor" button above and stop checking for any other spelling and grammar errors in the report, then fill out the deduction point as 6.If there are only 5 or fewer spelling or grammar errors, the lab instructor will copy the error sources and list them above, then select the button listed above as "OK" and fill out the score deductions above.Missing "Introduction" section in the report will result in a 3-point deduction.Missing "Conclusion" section in the report will result in a 3-point deduction. |
| Project 1 : VGA Display of Different Colors | Project 1 Demo    | Project 1 Report | Weight | Deduction |
|  | [ ]  No Demo [ ]  Demo On Time [ ]  Demo Late By \_\_\_\_\_weeks | [ ]  No Report [ ]  Report On  Time [ ]  Report Late By \_\_\_\_weeks | 50 |  |
| Note: Demo late by 1 week: 3-point deduction.Report late by 1 week: 5-point deduction.If you request lab demo later than lab4 report submission deadline week, the lab instructor will not check your lab demo and mark “No Demo” above. Reports submitted after the 15th week will not be accepted and lab instructor will mark "No Report" above.If the lab instructor marks “No Demo” or “No Report” above, the lab instructor will neglect your lab report, and mark 50-point deduction above. |
| Project 1 Report Errors:1. Missing Design Code.

 The lab instructor will neglect your lab report, and mark 50-point deduction above.Other Errors:1. Code Error 1:

Page # , Module Name #, Error Source: “……………”Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Code Error 2:

Page # , Module Name #, Error Source: “……………”Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Code Error 3, etc.

Page # , Module Name #, Error Source: “……………”Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Missing FPGA User Design Constraints
2. Error in FPGA User Design Constraints.

Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Missing Picture of Implementation Result on FPGA Board

Each of the above errors will result in a 3-point deduction.If the deduction is less than 50 points, the lab instructor will list all errors and fill out deduction points in this worksheet.If more than 50 deduction points are listed above, the lab instructor will stop checking for more project 1 report errors and fill out the deduction points as 50. |
| Project 2 : Character and Pattern Display on VGA | Project 2 Demo    | Project 2 Report | Weight | Deduction |
|  | [ ]  No Demo [ ]  Demo On Time [ ]  Demo Late By \_\_\_\_\_weeks | [ ]  No Report [ ]  Report On  Time [ ]  Report Late By \_\_\_\_weeks | 50 |  |
| Note:Demo late by 1 week: 3-point deduction.Report late by 1 week: 5-point deduction.If you request lab demo later than lab4 report submission deadline week, the lab instructor will not check your lab demo and mark “No Demo” above. Reports submitted after the 15th week will not be accepted and lab instructor will mark "No Report" above.If the lab instructor marks “No Demo” or “No Report” above, the lab instructor will neglect your lab report, and mark 33-point deduction above. |
| Project 2 Report Errors:1. Missing Design Code.

 The lab instructor will neglect your lab report, and mark 50-point deduction above.Other Errors:1. Code Error 1:

Page # , Module Name #, Error Source: “……………”Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Code Error 2:

Page # , Module Name #, Error Source: “……………”Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Code Error 3, etc.

Page # , Module Name #, Error Source: “……………”Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Missing FPGA User Design Constraints
2. Error in FPGA User Design Constraints.

Reason of Error: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.1. Missing Picture of Implementation Result on FPGA Board

Note: The waveform must clearly indicate all clock cycles required to generate the final correct result Each of the above errors will result in a 3-point deduction.If the deduction is less than 50 points, the lab instructor will list all errors and mark deduction points in this worksheet.If more than 50 deduction points are listed above, the lab instructor will stop checking for more project2 report errors and fill out the deduction points as 50. |