

# ECE 745

## ASIC Verification

# Project 4 Assignment – Closing I2CMB Test Plan Coverage



- 1) Create directed and random tests to close coverage listed in the test plan
- 2) Complete bug report form for identified bugs

# Provided in Assignment

- In Moodle:
  - Bug report form: ece745\_bug\_report.docx

# Project Setup Instructions

1. In your project\_benches directory:
  - Copy your proj\_3 project directory to proj\_4 directory

# Project Completion Instructions

1. In the ece745\_projects/proj\_4/sim directory
  1. Run directed and random tests to close test plan coverage
  2. Changes to bench, environment, wishbone, and i2c are allowed to accommodate testing needs.

# Project 4 Requirements

- List of test name and seed pairs used to achieve test plan coverage results
  - File name with the names of tests run and seeds used for each test: testlist
  - Entries in test list should contain arguments required when running the test
  - Place test list in sim directory
  - TA's should be able to use the test list to replicate your coverage results
- All directed and randomized tests
- All test ucdb files that contribute to test plan coverage
- The test plan spreadsheet in xml format
- Test plan ucdb
- Merged ucdb file containing test plan and all test coverage
- Bug reports for any bugs found

# Project 4 Grading Criteria

- Closure on test plan coverage
  - Higher coverage achieved is better
- Simulation time required by tests to achieve test plan coverage
  - Shorter time is better
- Bug reports for any valid bugs found
  - Deductions for reports of invalid bugs

# Project Submission

- Submit by 11:59pm on Sunday, April 24<sup>th</sup>
- Single tar file
  - Containing: ece745\_projects directory and all sub-directories
    - Project\_benches directory should include lab\_1, proj\_1, proj\_2, proj\_3 and proj\_4 sub-directories
  - Named: <unityId>\_p4.tar
  - Remove work directory from sim directory before creating tar file





