ECE599: PLL-2 (Advance Clocking Techniques)

Course Objectives: Get to know about the state-of-the-art clocking architectures. Learn to read and present a paper. Analyze the state-of-the-art architectures and the problems they intend to solve. Understand the strength and weakness of the architectural and algorithmic choices made to solve a given problem. Learn to critique a paper. Improve upon an already existing state-of-the-art architecture or provide mathematical analysis of the architectural choices. Learn to write a research paper based on the improvements and analysis.

Classroom GBAD 103

Class time M/W/F 10:00–10:50am

Instructor: Tejasvi Anand, anandt@eecs.oregonstate.edu

Office: KEC 4113, Ph. 541-737-4673

Office hours: Tuesday 4:00-5:00pm (or by appointment)

Textbook: No text book required

Prerequisites: ECE599 PLL-1 or equivalent

Course website: https://web.engr.oregonstate.edu/~anandt/ECE599_Spring_2016

Grading:

Project (Research Paper)	1%
In-class participation		1%

Reference books:

- B. Razavi, RF Microelectronics, Pearson, 2014.
- F. Gardner, *Phase lock Techniques*, John Wiley & Sons, 2005.
- D. Wolaver, *Phase-Locked Loop Circuit Design*, Prentice-Hall, 1991.
- W. Egan, *Phase-Lock Basics*, John Wiley & Sons, 1998.
- R. Best, Phase-Locked Loops: Design, Simulation, and Applications, McGraw Hill, 2003.

Reference papers: Posted online