San José State University

Computer Science Department

CS 147, Section 03

Computer Architecture

Spring, 2021

Course and Contact Information

Instructor:	Kaushik Patra
Office Location:	DH 282
Telephone:	(408) 924-5161
Email:	kaushik.patra@sjsu.edu
Office Hours:	TTh 4:30 pm – 5:45 pm
Class Days/Time:	TTh 7:30
Classroom:	Online
Prerequisites:	CS 47 or CMPE 102 or equivalent (with a grade of "C-" or better)

Course Format

This course uses online flipped method with designated meeting time as above mentioned. A tool 'ModelSim' will be used to study hardware operation concepts. The materials and lecture videos are uploaded in Canvas prior to class. Students are encouraged to review the lecture video and note before coming to class. During class hour it is expected that students bring their laptop with internet connection to download some simulation material to work on during class hour if needed. All the homework and assignments are to be uploaded in Canvas.

- x Analyze and perform tradeoffs between the cost, performance, and reliability of alternative computer architectures.

- x Under

Required Texts/Readings – can be rented or bought used/new from SJSU bookstore

Textbook

COMPUTER ORGANIZATION and DESIGN | Edition: 5
Author: DAVID A. PATTERSON
ISBN:9780124077263
Publication Date:10/10/2013

- x Design and Implementation.
- x Testing
- x Conclusion
- x Make sure to
    1. Include clear diagrams for requirement and design.
    2. Include code snippet to explain implementation.
    3. Include screen shots of testing results.
    4. Upload source code and test program as zip archive.

Project reports are encouraged to be submitted in IEEE format.
[http://www.ieee.org/conferences_events/conferences/publishing/templates.html]

10% of the obtained marks in project will be awarded as extra points in project evaluation if report submitted in proper IEEE format.

LockDown Browser + Webcam Requirement

This course requires the use of LockDown Browser and a webcam for online quizzes. The webcam can be the type that's built into your computer or one that plugs in with a USB cable.

Watch this brief video to get a basic understanding of LockDown Browser and the webcam feature.

- o Avoid wearing baseball caps or hats with brims
- o Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' Syllabus Information web page at http://www.sjsu.edu/gup/syllabusinfo/