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PDF Cs 135

Computer

Cs 135

Architecture I

Computer

Digital Logic

Architecture

Circuits

I Digital

Logic

Circuits

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logic circuits could

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Architecture I

CS 135 duration of a few gate delays
Feedback Circuits To retain their state values, sequential circuits rely on feedback. Feedback in digital circuits occurs when an output is looped back to the input. A simple example of this concept is shown below. CS 135 If Q is 0 it will always be 0, if it is 1, it will always be 1.

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Computer
Architecture I

Why? Feedback

Circuits

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CS 135: Computer Architecture I

CS 135: Computer Architecture I, Bhagi Narahari • What computers consist of • How computers work • How they are organized • How to fix computers • How to build one myself
This course is about: CS 135: Computer Architecture I, Bhagi

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Narahari How they are organized internally •
What is the link between hardware and software

CS 135: Computer Architecture I

CS 135 Laws of Boolean algebra

- Duality property: each boolean property has a dual property

$\frac{3}{4}$ Exchange + and .
Exchange 1 and 0

- Many useful properties/theorems

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Computer
Architecture I
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can be proved from the
10 fundamental
properties CS 135
Example: Idempotent
Property • Prove: $x + x = x$
• Proof: use only
the 10 fundamental
laws • $x+x = (x+x).1$;
From identity property

CS 135: Computer Architecture I Boolean Algebra

CS 135 Simple Switch
Circuit • Switch open:
 $\frac{3}{4}$ No current through
circuit $\frac{3}{4}$ Light is off $\frac{3}{4}V$

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Computer Architecture I Digital Logic Circuits

out is +2.9V • Switch closed: $\frac{3}{4}$ Short circuit across switch $\frac{3}{4}$ Current flows $\frac{3}{4}$ Light is on $\frac{3}{4}$ V out is 0V Switch-based circuits can easily represent two states: on/off, open/closed, voltage/no voltage. CS 135 Digital Circuits: It's all about switching... • Action at a distance

CS 135: Computer Architecture I Digital Logic Circuits

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Computer
Architecture I.

Instructor: Professor

Bhagi Narahari

narahari@gwu.edu

Class Schedule: Tues,

Thurs 2:20--3:35pm,

Monroe 111 Fall 2010

Office Hours: Tues,

Thurs: 1--2pm. Other

times by Appointment.

Course Outline This is

an introductory course

on Computer

organization and

computer systems. The

course will expose the

student to

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**CS 135: Computer
Architecture I**

CS 135: Computer
Architecture I

Instructor: Prof. Bhagi
Narahari Dept. of
Computer Science ... +

Indicates instructions
that modify condition
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LDR+ 0110 DR BaseR

offset6 LEA+ 1110
PCoffset9 NOT+ 1001
DR SR 111111 RET

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1100 000 111 000000

Architecture I

**CS 135: Computer
Architecture I the
LC3**

CS 135: Computer
Architecture I Lecture
Notes. You should also
refer to the lecture
notes available from
the textbook website.
The lecture notes
posted are not meant
to substitute for the
text -- you are required
to read the textbook
before (and after) each

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Computer

class.

Architecture I

CS 135: Computer Architecture I

CS135 is one of several introductory CS courses 1 at University of Waterloo. It is aimed at CS majors and other motivated learners.

Previous computing background is not required nor assumed.

CS135 uses a functional programming approach.

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Computer

**CS135 - School of
Computer Science
Student WWW
Server**

Computer Science

152/252: CS152

Computer Architecture
and Engineering CS252

Graduate Computer
Architecture Spring

2019 Prof. Krste

Asanović TAs: David

Biancolin and Albert

Magyar CS152/CS252

Lectures: Monday and

Wednesday,

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Computer
1:00-2:30pm, 306 Soda
Hall Architecture I

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**CS252 Graduate
Computer
Architecture**

History. The first documented computer architecture was in the correspondence between Charles Babbage and Ada Lovelace, describing the analytical engine. When building the computer Z1 in 1936, Konrad Zuse

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described in two patent applications for his future projects that machine instructions could be stored in the same storage used for data, i.e., the stored-program concept.

Computer architecture - Wikipedia

135 PROGRAMMING IN C/C++ 3.0 Units CS/IS
135 is a course in programming using the C/C++ languages,

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with uses in

Architecture I
applications

programming for real

time, business, and

Digital Logic
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image processing

systems as well as

systems programming.

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Community College**

COMPUTER

ARCHITECTURE CS 450

- Winter 2009 Register

Now dynamic

pipeline.pdf. 1 pages.

mipsHandout.pdf

University of Waterloo

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COMPUTER

ARCHITECTURE CS 450

- Winter 2009 ... CS

135 - design program

(743 Documents) CS

116 - cs116 ...

**CS 450 : COMPUTER
ARCHITECTURE -
University of
Waterloo**

CS/IS 166: Advanced
Computer Architecture
and Assembly

Language: 3 : CS/IS

135 or equivalent :

CS/IS 211 : Data

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Structure : 4 : CS/IS
211 or equivalent :
CS/IS 212: Advanced
Data Structure : 3:
CS/IS 112 or equivalent
: CS/IS 280 : Concepts
of Programming
Languages : 3 : Select
courses from the
following list to
complete a total of 20
units :

**Computer Science |
Glendale Community
College**

CS 470 - Computer

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Computer Architecture (CSU Online) This course is designed to offer you in-depth knowledge of modern computer architecture. Focus on the important designing factors such as cost, performance and power and developing functional units.

6 Best Computer Architecture Course & Certification [2020]

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Access study documents, get answers to your study questions, and connect with real tutors for CS 135 : Computer Science I at University Of Nevada, Las Vegas.

CS 135 : Computer Science I - UNLV

CS8491 Computer Architecture Syllabus Regulation 2017. UNIT I
BASIC STRUCTURE OF A COMPUTER SYSTEM.
Functional Units - Basic

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Operational Concepts -
Performance -
Instructions: Language
of the Computer -
Operations, Operands -
Instruction
representation -
Logical operations -
decision making - MIPS
Addressing. UNIT II
ARITHMETIC FOR
COMPUTERS.

**CS8491 Computer
Architecture
Syllabus Notes
Question Banks ...**

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CS 352 - Computer

Architecture Instructor:

Dr. Jack Tan Office:

Phillips 135 Office

Hours: [click here](#) Email:

tanjs@uwec.edu Tel:

836-2408 Course

Description: A study of

hardware organization

and architecture

including performance

metrics, machine data

and

CS 352 Computer

Architecture

CS 206 Computer

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Computer Architecture. Credits:

4. Prerequisites: none.

This course introduces students to the

organization and

architecture of

computer systems. The

student will learn the

basics of representing

data and logical

manipulation of data in

a digital computer. The

student will learn the

details of the

fundamental

components of the

computer.

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**CS 206 - Computer
Architecture - Upper
Iowa University**

On the other hand,
computer architecture
is a rich source of ideas
and understanding for
other areas of
computer science,
giving you a broad and
stronger foundation for
the study of
programming,
computer languages,
compilers, software
architecture, domain

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Computer
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specific computing (like
scientific computing),
and more.

Copyright code: d41d8
cd98f00b204e9800998
ecf8427e.