students will working oups to deliver presentations on pre assigned topics A tool 'MARS' will be used to study assembly programing concept.

CarseDescription

Instructionsets, assembly language and assemblers, linkers and loaders, data representation and nanipulation, interrupts, pointers, function calls, argument passing and basic gate level digital logic design

Computer Ogarization, Numberrepresentation, Programming a Computer, Compilation, Assembles, Linker, Loader, MIPS assembly language programming Run Time Memory Uponsuccessful completion of this cause, students should be able to

Tobefaniliar with the achitectual components of accomputer system CPU (registers, ALU), memory, bases

Tobeable to convert between decinal, binary, and hexadecinal notations

Towakwithtwoiscomplementinteges, floating point numbers, and character encodings

Tobeable to write assembly programs that use load/store, arithmetic, logic, barches, call/returnardpush/popinstructions

Tourdestand the gate level queations of basic ALU

Required Texts/Readings

COMPUTER ORGANIZATION and DESIGN | Edition 5 Autho: DAVIDA. PATTERSON, ISBN 9780124077668 Rublication Date 10/10/2013 Rublisher: ELSEVIER

Other Readings

Logic & Conputer DesignFurchmentals 5thEditionISEN 9780133760637 Author(s): M Monis R. Mano, Charles R. Kime, TomMatin Publisher: PEARSON

ClassroomProtocol

Lucas College and Graduate School of Business Program Goels and Class 100 mpdicy http://www.sjsuedu/cob/Students/policies/index.html

Eating Eating and dirking (except water) an "undurdumb oun

Computer Use

Sturbuts use computers only for class related activities. These include activities such as taking roles on the lecture underway, following the lecture on Web based PowerPoint slicks that the instructor has posted, and finding Web sites to which the instructor directs students at the time of the lecture. Students who use their computers for other activities or who abuse the equipment in any way, at a minimum, will be asked to leave the class and will lose participation points for the day, and, at a maximum, will be referred to the Judicial Affairs Officer of the University for discupting the course (Such referral can lead to supersion from the University.) Students are uged to report to their instructors computer use that they regard as impropriate (i.e., used for activities that are not class related). Noneconding devices may be used in the classion

Academic integrity statement (from Office of Judicial Affairs):

Your comitment to learning as evidenced by your enclinent at San. José State University and the University's Academic Integrity Policy requires you to be horest in all your academic course work. Faculty members are required to report all infractions to the Office of Judicial Affairs. The policy on academic integrity is at http://www2.sjsuedu/screte/SO4 12 prf

Canpus policy in compliance with the Americans with Disabilities Act:

If you need ou sead aptations or accommodations because of a disability, or if you need special an arguments for this ordine class, please cmail meass soon as possible and make an appointment to see me Presidential Directive 97 OB requires that sturkents with disabilities register with AEC to establish are cond of their disability.

ProtoringSoftwareandExams

Exans will be protoed in this cause through Respondes Monitor and LockDown Browser Please multitis the instructor's discretion to determine the nethod of protoning. If cheating is suspected the protoed vickos may be used for further impaction and may be come part of the sturken's disciplinary record. Note that the protoning software chess not determine whether academic miscord act on each but chess determine whether some thing in egy lar occured that may require further investigation. Sturken's a een cuaged to contact the instructor if unexpected interruptions (ficoma parent commute, for example) occurduing an exam

RecordingZoomClasses

If recessary, particus of this cause (i.e., lectures, discussions, student presentations) may be recorded for instructional areal cational purposes. The recordings will only be shared with students emailed in the class through Canvas

Students are not allowed to record without instructor permission

Sturents are published from ecoucing class activities (including class lectures, office hous, advising sessions, etc.), distributing class recordings, or posting class recordings. Materials created by the instructor for the course (syllabi, lectures and lecture notes, presentations, etc.) are copyrighted by the instructor. This university policy (S12-7) is in place to protect the privacy of sturents in the course, as well as to maintain academic integrity through reducing the instances of cheating. Sturents who record, distribute, or

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<u>37270</u>

OnceInstalled

Start LockDownBrowser Loginto to Canvas Navigate to the quiz

ExtraCtedits

CauseSchedule¹

Date	Lecture	Notes
01/23		
01/28	Introduction to Conputer	Use cases interl world, systemptogramming
01/30	Conputer Ognization	Architecture and Working Code Instruction Flow at hardware level
0204	NunberRepresentations in Computers	DataTypes, TeamFormationfor Presentations
0206	Rogamirgaconputer	ConpilationFlow Assemble; linkerardloade; Codeflowindepth
02/11	Assenbler, Linker, Loader	
(2/1		