

Course Assessment Report Check List

Instructor: Muhamed Mudawar

Course#-Sec#: ICS 233-01&02

Semester: 062

- | | |
|--|--|
| <p>1. Course Assessment Report
<input checked="" type="checkbox"/> Complete
<input type="checkbox"/> Incomplete
<input checked="" type="checkbox"/> Learning Outcomes Survey available
<input type="checkbox"/> Learning Outcomes Survey missing</p> <p>2. Copy of "I" Grade Reports
<input checked="" type="checkbox"/> not applicable
<input type="checkbox"/> # of reports available
<input type="checkbox"/> # of reports missing</p> <p>3. Syllabus
<input checked="" type="checkbox"/> Available
<input type="checkbox"/> Not Available</p> <p>4. Handouts
<input checked="" type="checkbox"/> not applicable
<input type="checkbox"/> available
<input type="checkbox"/> missing</p> <p>5. Lab
<input checked="" type="checkbox"/> not applicable
<input type="checkbox"/> # of experiments available
<input type="checkbox"/> # of experiments missing</p> <p>6. Quizzes
<input checked="" type="checkbox"/> not applicable
<input type="checkbox"/> # of quizzes available
<input type="checkbox"/> # of quizzes missing
<input type="checkbox"/> # of best quizzes available
<input type="checkbox"/> # of best quizzes missing
<input type="checkbox"/> # of worst quizzes available
<input type="checkbox"/> # of worst quizzes missing</p> <p>7. Assignments/Homeworks
<input type="checkbox"/> not applicable
<input checked="" type="checkbox"/> # of assignments available
<input type="checkbox"/> # of assignments missing
<input type="checkbox"/> # of best assignments available
<input type="checkbox"/> # of best assignments missing
<input type="checkbox"/> # of worst assignments available
<input type="checkbox"/> # of worst assignments missing</p> | <p>8. Projects
<input type="checkbox"/> not applicable
<input checked="" type="checkbox"/> # of projects available
<input type="checkbox"/> # of projects missing
<input checked="" type="checkbox"/> # of best projects available
<input type="checkbox"/> # of best projects missing
<input type="checkbox"/> # of worst projects available
<input type="checkbox"/> # of worst projects missing</p> <p>9. Midterm / Majors / Tests
<input type="checkbox"/> not applicable
<input checked="" type="checkbox"/> # of exams available
<input type="checkbox"/> # of exams missing
<input checked="" type="checkbox"/> # of exam key solutions available
<input type="checkbox"/> # of exam key solutions missing
<input checked="" type="checkbox"/> # of best exams available
<input type="checkbox"/> # of best exams missing
<input checked="" type="checkbox"/> # of worst exams available
<input type="checkbox"/> # of worst exams missing</p> <p>10. Final exam
<input type="checkbox"/> not applicable
<input checked="" type="checkbox"/> available
<input type="checkbox"/> missing
<input checked="" type="checkbox"/> Final key solution available
<input type="checkbox"/> Final key solution missing
<input checked="" type="checkbox"/> best final exam available
<input type="checkbox"/> best final exam missing
<input checked="" type="checkbox"/> worst final exam available
<input type="checkbox"/> worst final exam missing</p> <p>11. Other (Please specify):
<input type="checkbox"/> not applicable
<input type="checkbox"/> available
<input type="checkbox"/> missing
<input type="checkbox"/> best "other" available
<input type="checkbox"/> best "other" missing
<input type="checkbox"/> worst "other" available
<input type="checkbox"/> worst "other" missing</p> |
|--|--|

12. Comments: _____

Name of person filling this form: _____ Dr. Muhamed Mudawar _____

Signature and Date : _____

**King Fahd University of Petroleum and Minerals
Information and Computer Science Department**

Course Assessment Report

1. Course Information

Course Number & Title: ICS 233-01&02
Course Title: Computer Architecture and Assembly Language
Course Format: 3-3-4
Semester: Spring 2007
Instructor Name: Dr. Muhamed Mudawar
Instructor Role: Lecture Instructor (one of Lecture Instructor or Lab Instructor)
Enrollment: Registered: 34 (2 sections) Withdrawn: 1
Class Grade Point Average (GPA): 2.75

2. Course Learning Outcomes

The table below provides the faculty assessment of the actual coverage of the course objectives at the end of the semester.

#	Learning Outcome	Coverage Percentage 0 – 100%
1	Ability to analyze, write, and test MIPS assembly language programs.	100%
2	Ability to describe the organization and operation of integer and floating-point arithmetic units.	100%
3	Ability to apply knowledge of mathematics in CPU performance and in speedup computation	100%
4	Ability to design the datapath and control of a processor.	100%
5	Ability to use simulator tools in the lab and in projects.	100%

3. Indirect Assessment Results of Course Learning Outcomes

3.1 Learning Outcomes Survey Results

The survey was done in class during the last week of classes. 30 students took the survey.

4. Excellent 3. Good 2. Average 1. Poor

After taking this course, I am able to:	4	3	2	1	Average
Analyze, write, and test MIPS assembly language programs.	15	14	1		3.46
Describe the organization and operation of integer and floating-point arithmetic units.	10	19	1		3.3
Apply knowledge of mathematics in CPU performance and in speedup computation.	7	14	6	3	2.83
Design the datapath and control of a processor.	6	11	12	1	2.73
Use simulator tools in the lab and in projects.	12	15	3		3.3

3.2 Student Comments Survey Results

<In response to the question “**In light of the learning outcomes, what did you like most about this course**”, please include students’ comments below>

- *Process designing*
- *Understanding and building a CPU*
- *Datapath design and CPU performance*
- *It gives a good way to go to the detailed of the computer organization and assembly language*
- *The material related to CPU design and structure*
- *Designing the datapath and control of a processor, knowing how to program with MIPS assembly language*
- *Programming with MIPS*
- *Assembly programming. I dislike Computer Architecture part of the course, it should be only for COE students*
- *It is more related to how computers work and understand its work*
- *What I liked most about this course is that it clarified so many unclear ideas about the inside of the machine. I had a Java course and every time I hear the works stack, heap addresses I didn't really have that understanding.*
- *Instructor and the stuff*
- *The whole course was interesting. The material are new and enjoying. I felt like am taking an elective course.*
- *MIPS assembly language*
- *Assembly language*

- *I do like the assembly language and the organization and operation of integer and floating point units*
- *Computer Architecture*
- *Is good*
- *The MIPS part of the course is very interesting*
- *Datapath and control of a processor*
- *The design of the datapath and control of a processor, also pipelining*
- *Performance, floating-point numbers, MIPS assembly language programming*
- *The combination of software and hardware and how they are related*
- *MIPS assembly language*
- *MIPS assembly language, Performance subjects*
- *The first chapters, fundamentals of MIPS assembly language*
- *The ability that I gained to understand computers and compilers*
- *The code part*
- *The slides for this course is good organized*
- *Assembly PL, it gave me a clear understandability of how programming language work*

<In response to the question “**In light of the learning outcomes, list any suggestions you have to improve this course**”, please include students’ comments below>

- *Nothing, this course is well designed and presented*
- *Please NO MIPS, as an SWE or even an ICS student this course will not be very much useful for the career. I think Intel Assembly is the right for us*
- *Make the lecture agree with the labs (what we take in lecture we see in the lab)*
- *Put more programming examples in the lab for MIPS programming*
- *Extra examples may improve the course*
- *Assignments solution should be posted to get the benefit from them*
- *If somehow the COE part be reduced. And for labs if the instructor could provide an opened computer would be very good.*
- *Include some part on Intel ISA*
- *Do not make complicated. It has a lot of subjects which are not needed*
- *As a student, I do not see any point of having such course. I mean we already study high-level language, so why do we back to low*
- *Arrange the materials, because we take something in lab before we take in class*
- *More organization between the lab and the lecture*
- *The subject of the lab should be covered in the lecture first*
- *Give the student more details in the blocks of the datapath*
- *I want to say that the student does a poor work when he has a lot of things to do. In this course, we did once Project, HW, Major in one week. So, take care of this point*
- *To make the curriculum of the lab going the same way as the lecture is*
- *Add up some Quizzes to check out our understanding during the course*
- *The amount of stuff that resulted from combining the two courses were a bit too much*
- *To introduce a better tool for designing the datapath*
- *There is too much material in this course*
- *Separate the course back to two courses, one for assembly language and the other for processor design*

4. Direct Evaluation of Course Learning Outcomes

Outcome		Assessment Method						
		Assignments	Exam I	Exam II	Final	Lab Work	Projects	Total
O1		4%	15%			9%	6%	34%
	Average	76%	67.4%			84.5%	89.7%	76.9%
	Evidence	#2, 3	Exam I				Project 1	
O2		2%		8%			4%	14%
	Average	66%		66.7%			89.7%	73.2%
	Evidence	#4		Exam II			Project 1	
O3		4%		5%	15%			24%
	Average	60%		66.7%	58%			60.1%
	Evidence	#1, 5, 6		Exam II	Final Ex			
O4				2%	5%	6%	10%	23%
	Average			66.7%	58%	84.5%	90.9%	80%
	Evidence			Exam II	Final Ex		Project 2	
O5						5%		5%
	Average					84.5%		84.5%
	Evidence							
Weight		10%	15%	15%	20%	20%	20%	100%
Average		67.5%	67.4%	66.7%	58%	84.5%	90.3%	73.4%

1. STUDENTS:

The following information should be supplied based on the FINAL ROSTER of grade issued by the Registrar:

No. of students who received	W	<u>0</u>
No. of students who received	Z	<u>0</u>
No. of students who received	WP	<u>1</u>
No. of students who received	WF	<u>0</u>
No. of students who received	DN	<u>0</u>
No. of students who received	NP	<u>0</u>
No. of students who received	IC	<u>0</u>
No. of students who received	AU	<u>0</u>
No. of students (excluding the above who took the final exam.)		<u>33</u>
No. of students (excluding the above) who missed the final exam.)		<u>0</u>
	Total :	<u>34</u>

2. RANGE OF EACH LETTER GRADE

LETTER GRADE	A+	A	B+	B	C+	C	D+	D	F
RANGE	≥ 90	≥ 85	≥ 80	≥ 74	≥ 67	≥ 61	≥ 55	≥ 50	< 50

3. DISTRIBUTION OF GRADES AND CLASS GPA:

LETTER GRADE	A+	A	B+	B	C+	C	D+	D	F
Number Students	3	3	3	9	6	4	4	1	0

Class GPA = 2.75

4. "I" GRADES:

No student got an incomplete in this course.