Help

Courseware **Course Info** Discussion Wiki **Progress Discussion Guidelines Exploring Engineering** Syllabus Resources

How to Use Jade

In this module we will discuss the Instruction Set Architecture, or ISA. The ISA is the language that a processor actually understands. It determines the operations, registers, and memory organization of the processor. After learning about these components of an ISA, we will delve into the details of the LC-3's ISA, learning how to design hardware that executes LC-3 operate and memory instructions.

By the end of this module, you will be able to:

- Explain the major components of an ISA: the instructions, registers, and memory organization.
- Implement the hardware to support LC-3 operate and memory instructions.
- omnare the three addressing modes for IC-3

ITR	ODUCING TH	E INSTRUCT	IONAL SET	ARCHITECT	ΓURE					
	2:44 / 2:44							1.0x		
Dow	nload transcript	.txt								
	Show Discussion							Ø	New Post	

1 of 2



EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by founding partners Harvard and MIT.

© 2015 edX Inc.

EdX, Open edX, and the edX and Open edX logos are registered trademarks or trademarks of edX lnc.

Terms of Service and Honor Code

Privacy Policy (Revised 10/22/2014)



About edX

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

Follow Us

Facebook

Twitter

in LinkedIn

g- Google+

Tumblr

Meetup

Reddit

Tube Youtube

2 of 2 04/24/2015 03:25 PM