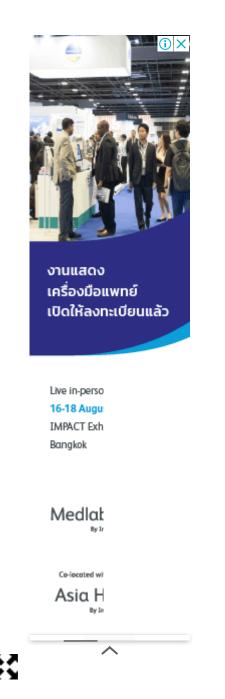


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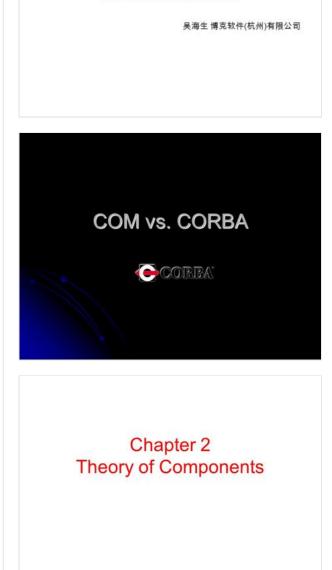
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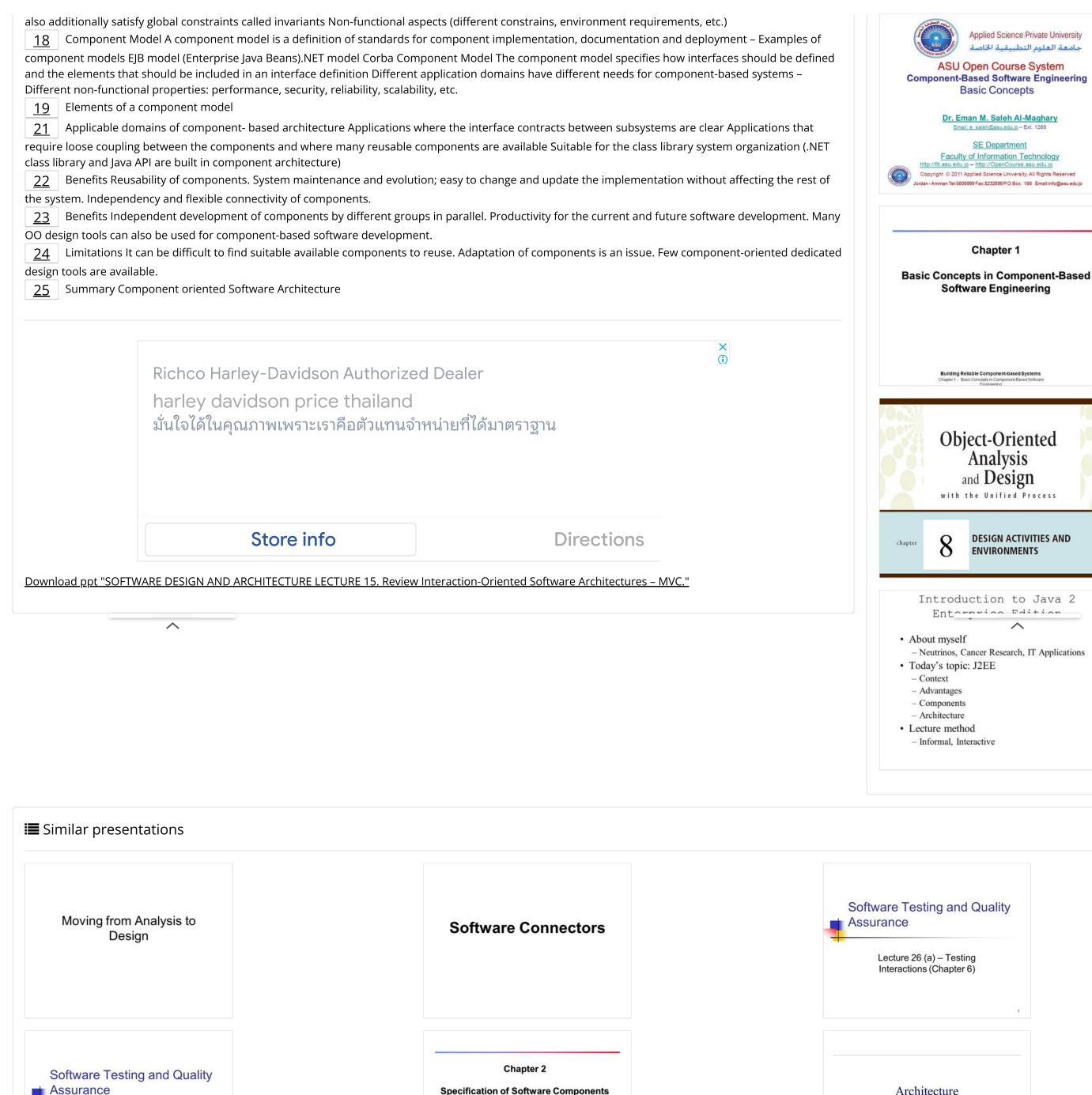
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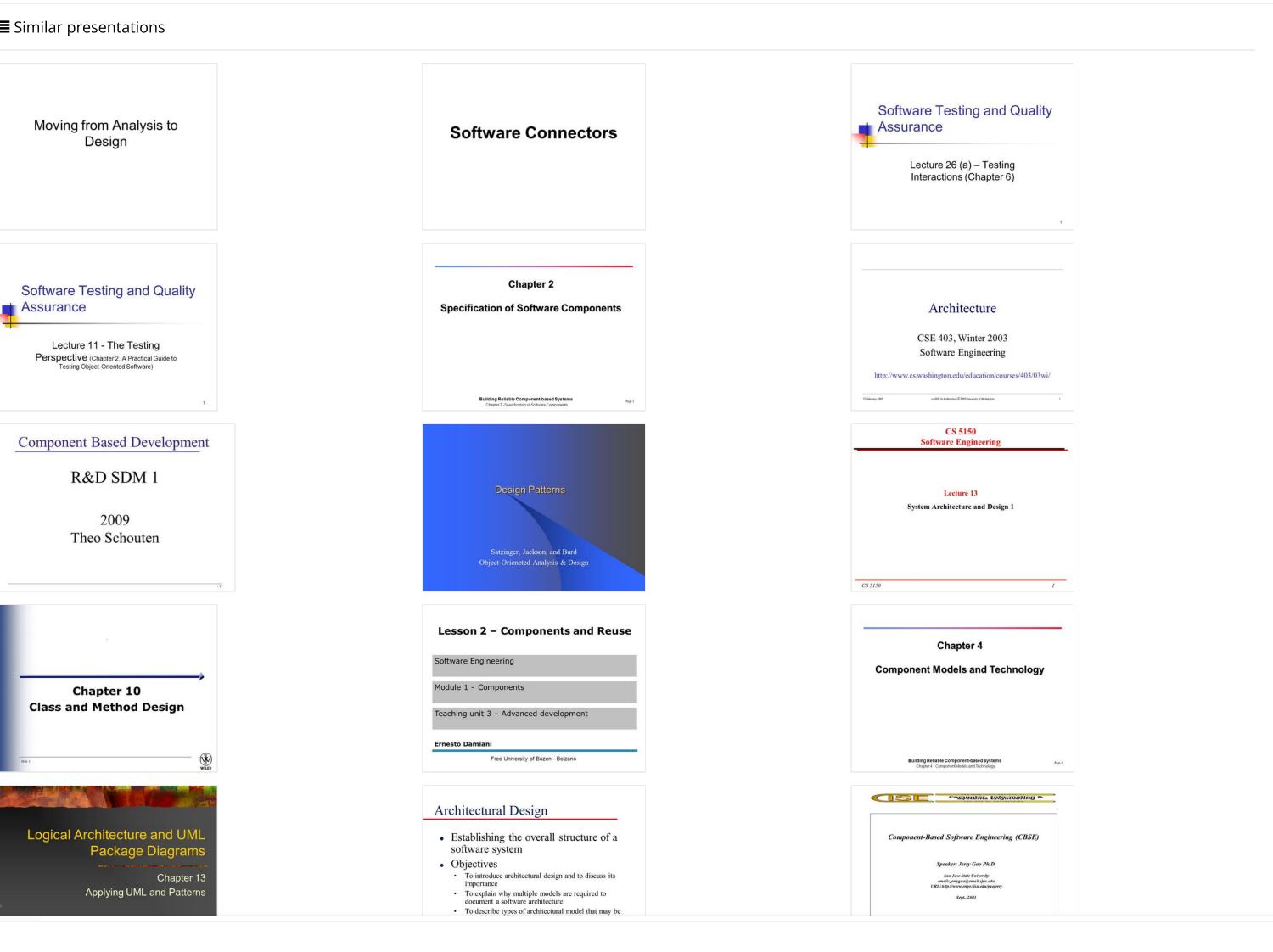
- Review Interaction-Oriented Software Architectures MVC
- Outline Component Based Architecture
- COMPONENT BASED SOFTWARE ARCHITECTURE
- Component Based Software Architecture Component-based software architecture divides a problem into sub-problems each associated with component partitions. The interfaces of the components play important roles in the component-based design. The main motivation behind component-based design is component reusability.
- 6 Component Based Software Architecture Designs can make use of existing reusable commercial off-the-shelf (COTS) components or ones developed in-house, and they may produce reusable components for future reuse. This increases overall system reliability since the reliability of each individual component enhances the reliability of the whole system via reuse.
- Z Component A component is a deployable software package that can provide services to its clients; it may also itself require services from other components. A component remains self-contained and substitutable as long as its interface is unchanged.
- 8 Component Component is a higher level of abstract concept than class. A component may consist of many related classes stored and deployed in the same binary assembly.
- 9 Component The interface of a component plays the role of contract between its implementation and its clients; hence the approach is also called a contract-oriented software architecture. The first step in component-based software design is to identify firstcut components and specify all necessary connections among these components. The connections are conducted via the interfaces of components.
- 10 N tier Architecture
- Components can be made of Source code Classes one or more, possibly related Executable code Object code Virtual object code Other files – Images, text, indices
- 13 Connectors Connectors connect components, specifying and ruling their interaction. Component interaction can take the form of – method invocations, – asynchronous invocations such as event listener and registrations, broadcasting, – message-driven



9.5 Software Architecture

· Software architecture is process of designing the global organization of a software system,



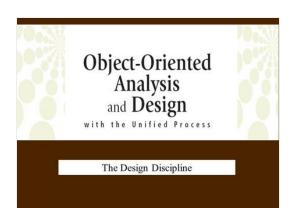






Chapter 10 Introduction to Components

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An Introduction to Software Architecture

Software Engineering Lab.
Summer 2006 Architectural Blueprints – The "4+1" view Model of Software Architecture

Based on the paper by Phillippe Kruchten from Rational Software

Component-based software engineering 1

Clas Sommerville 2004 Software Engineering, 7th edition. Chapter 19 Slide 1

CSE 303 – Software Design and Architecture

LECTURE 03

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