

CIM (21-548)

Advanced Manufacturing Laboratory Department of Industrial Engineering Sharif University of Technology

Session # 21

Course Description

Instructor

- Omid Fatahi Valilai, Ph.D. Industrial Engineering Department, Sharif University of Technology
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- Website: Sharif.edu/~fvalilai

Class time

 Sunday-Tuesday 	09:00-10:30
Course evaluation	
Mid-term	(30%)
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2	Final exam	(30%)
•	Quiz	(5%)
•	Exercise	(15%)

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Course Description (Continued ...)

- *Mid-term session:*
 - *Sunday: 16th Azar 1393, 09:00 ~ 10:30*
- Final Exam:
 - Tuesday: 30th Dey 1393, 15:00 ~ 17:30
- *Reference*:
 - Schaefer, D., Cloud-based Design and Manufacturing (CBDM): A Service-Oriented Product Development Paradigm for the 21st Century, . London: Springer, 2014
 - Koren, Y., "The Global Manufacturing Revolution", Wiley, 2010
 - Nasr, A., "Computer-Based Design and Manufacturing An Information-Based Approach", Springer, 2007
 - Mitchell, F.H., "CIM Systems: An Introduction to Computer-Integrated Manufacturing", Prentice Hall College Div; 1St Edition edition (January 1991), ISBN: 978-0131332997



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Course Description (Continued..)

Contents:	
 Globalization and Manufacturing Paradigms 	(8 sessions)
System Concepts	(3 sessions)
Evolution of Manufacturing systems	(2 sessions)
 Manufacturing System Design 	(4 sessions)
 Manufacturing Equipment Design 	(3 sessions)
 Information flow in Manufacturing Systems 	(4 sessions)
Product design and Manufacturing System	(3 sessions)
Manufacturing System Implementation	(5 sessions)
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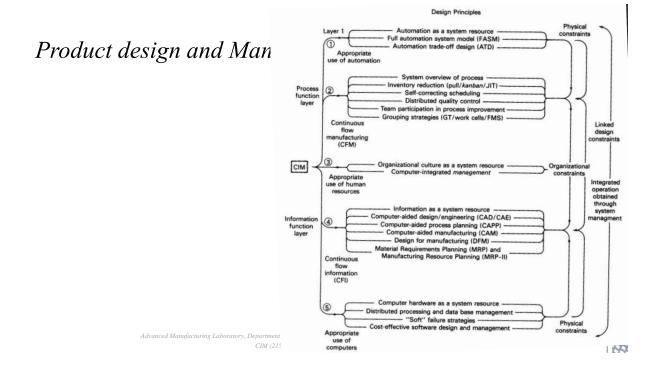
Course Description (Continued..)

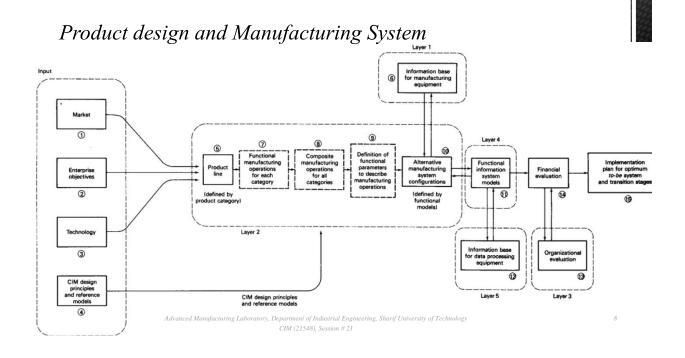
Contents:

- Product design and Manufacturing System
 - Introduction to Computer-Aided Design and Manufacturing
 - Design for Assembly and Manufacturing
 - Computer Communication for CAD integration

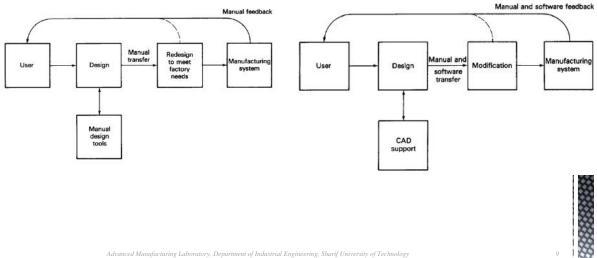
(3sessions)

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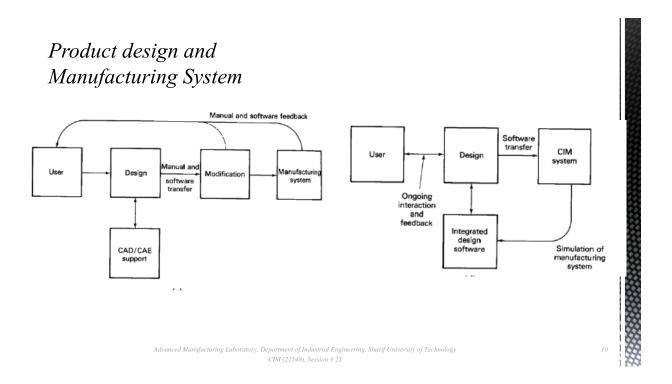


Product design and Manufacturing System

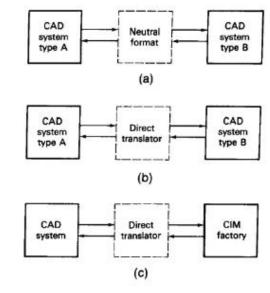


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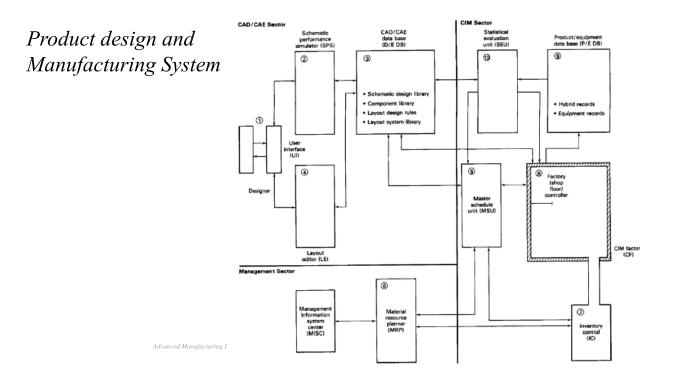
1/6/2015



Product design and Manufacturing System



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Product design and Manufacturing System

