

<b>Course Name (Persian)</b>	معماری سازمانی فناوری اطلاعات
<b>Course Name (English)</b>	(Information Technology Enterprise Architecture)

<b>Course No. :</b>	40636	<b>Credits:</b>	3	<b>Degree:</b>	Master of Science
<b>Prerequisite:</b>	–	<b>Corequisite:</b>	–		
<b>Author:</b>	Jafar Habibi				

### Objective

**The objective of this course is to introduce students to enterprise and information architecture concepts, executive methods, frameworks, methodologies and tools; particularly planning techniques and design of data and information distribution in organizations.**

### Syllabus

1. Enterprise Architecture Concepts
2. Current State of Enterprise Architecture
3. Introduction to Enterprise Architecture Compilation Process
4. Role of Information Technology Strategic Planning in Enterprise Architecture
5. Enterprise Architecture Frameworks (Zachman, FEAF, DoDAF, ToGAF)
6. Enterprise Architecture Methodology (IE, EAP, ADM)
7. Executive Foundations in Enterprise Architecture Domain
  - a. Target Strategy Definition
  - b. Porter Model and SWOT Analysis
  - c. Executive Foundations
  - d. Change Management
8. Reference Model
9. Best Practices Knowledge Base
10. Portfolio Management
11. Adaptation Roadmap
12. Designing Business, Application, Information and Infrastructure Architecture
13. Data Architecture
14. Distributed Models
  - a. Decentralized and Distributed Databases
15. Distributed Approaches
16. Distributed Databases Models
17. Data Security
18. Data Warehouse and Data Mining
19. Enterprise Architecture Management and Transition
20. Enterprise Architecture Implementation Issues
21. Evaluation of Enterprise Architecture Results

## References

- ❖ Dan Minoli, Enterprise Architecture A to Z: Frameworks, Business Process Modeling, SOA, and Infrastructure Technology, Taylor & Francis Group, 2008.
- ❖ Perks, Col, and Beveridge, Tony , Guide to Enterprise IT Architecture, Springer, 2002.
- ❖ S. H. Spewak, enterprise Architecture Planning: Developing a Blueprint for Data, Applications, and Technology, wiley, 1993.
- ❖ Jaap Schekkerman, How to Survive in the Jungle of Enterprise Architecture Frameworks: Creating or Choosing an Enterprise Architecture Framework, Trafford, 2006.
- ❖ Peter Morville, and Louis Rosenfeld, Information Architecture for the World Wide Web, 3rd Edition, O'Reilly, 2006.