

IT in Construction

Course Overview

Amin Alvanchi, PhD

Construction Engineering and Management



IT in Construction

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□ Purpose of the course

- To introduce different applications of IT in the construction industry
- To give you a basic knowledge on working with IT tools
- To give directions required for building up your abilities in new IT tools



Question: Are you going to be an IT-person after this course?

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- **Course outline** (main emphasis is on information systems)

#	Topic
1	Introduction to IT in construction
2-5	Construction Management Information System (Introduction/ Recognition/Analysis/Design/ Implemetation) (software MS. Access)
6-10	Introduction to Building information Modeling (Introduction/ Application/Execution)
11-13	Internet programming basics (HTML, CSS, Javascript)

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□ **Grade Distribution:**

- Home Assignments: 15%
- Lab/ in Class Exercises: 10%
- Term Project: 25%
- Final Exam: 50% (Open book)

□ **Contact Info**

- Website: <http://sharif.edu/~alvanchi/IT.html>
 - **Find course materials, assignments and announcements on the website**
- Office hours: Please contact!
- Email: alvanchi@sharif.edu
- Teaching Assistant: Siavash Moghaddam Email: TBA
 - **Submit your electronic assignments and send your questions to the TA.**

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IT in Construction

Course#: 20-325
 Lecturer: *Dr. Amin Alvanchi*
 Room: Civil 210
 Start date: *Bahman 17th, 1401*
 Last day of classes: *Khordad 10th, 1402*
 Final exam: *Khordad 24th, 1402; 9am*
 Course hours: *Even days, 13:30 to 15:00 pm*
 Office hours: *Please contact*
 Contact: alvanchi@sharif.edu
 Teaching Assistant (TA): *Siavash Moghaddam*
 TA contact: TBA
 TA hours: TBA

[Course Overview](#)

Topics

Topic #	Topic Description
1	Introduction to IT in Construction
spreadsheet	Spreadsheet application in the construction projects Support Material
2	Construction MIS - Introduction Support Material
3	Construction MIS - System Recognition and Analysis
4	Construction MIS-Conceptual Design
5	Construction MIS-Detail Design and Implementation Support Material
6	An Overview of the BIM Support Material
7	Intro to Revit
8	Intro to NavisWorks
9	Level of Development
10	BIM Planning

Announcements

Date Posted	Annoucement Description
1401/11/17	Welcome to IT in Construction course, a place to learn new materials and share novel ideas!

Assignments

Assignment	Solution
To be posted on CW	



Thank you!