

Advanced Topics in BIM

Course Overview

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Construction Engineering and Management



Advanced Topics in BIM

2

□ Purpose of the course

- Introducing the role and importance of building information modeling in construction project management processes,
- Improving the students' system technical skill in working with BIM-based tools,
- Introducing different prevalent terms and aspects of BIM to the students,



Question: Are you going to be an BIM Manager/ BIM modeler after this course?

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3

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

#	Topic
1	BIM Implementation Strategic Planning in Practice
2	BIM Execution Plan (BEP) Development in Practice
3	Introduction to Virtual Reality Plug-in Tools in Revit
4	BIM Application in Practice – 3D Simulation
5	BIM Application in Practice – Clash Detection and Removal
6	BIM Application in Practice – Quantity Take off
7	BIM Application in Practice – 4D Planning
8	BIM Application in Practice – 4D Control
9	Standard BIM Object Development

Advanced Topics in BIM

4

□ **Grade Distribution:**

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



Thank you!