

ECSE-211

Design Principles and Methods

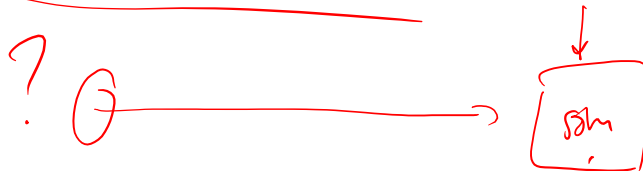
Lecture: Design 1
11 January 2019

1. | Course Outline. - dates
 MidTerm - Feb 15 |
 Demo → April 10
2. | Lab Groups - posted - My Courses
 a) Find partner ✓
 b) 4th floor counter - slip
 → c) Entire group - pick up a list
 d) MC0120 - Lockers - Lock
3. | 1st Lab starts Wed Jan 16

Introduction to Design

What is Design? ^{noun}
_{verb}

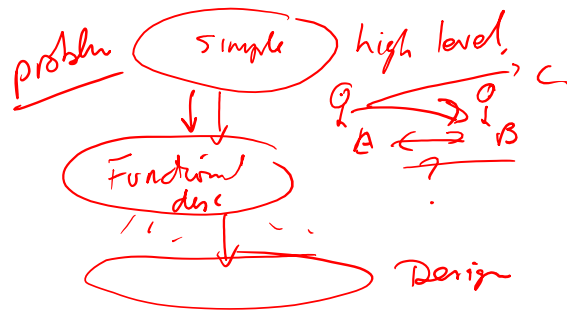
- The way you want something to look / operate.
- creation of an object with specific constraints.
- problem solving.



Create a 5G communication system

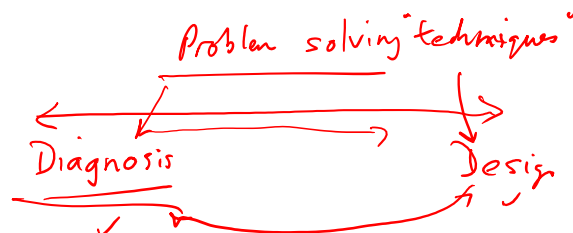
Montreal

Create a process



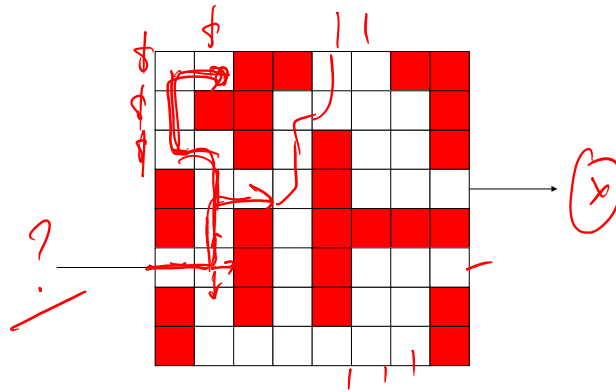
Problem Solving

- Design is a problem solving exercise..
- How do you solve problems?



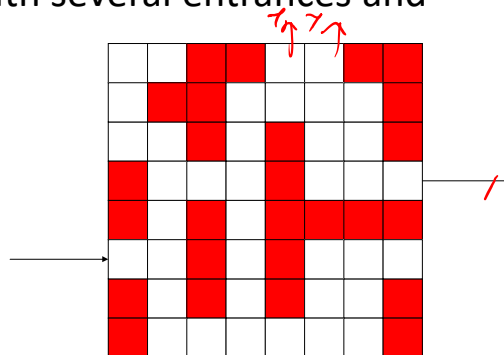
Design

- Getting to the solution of a design problem is like solving a maze...



Design

- Getting to the solution of a design problem is like solving a maze...
- But it is a maze with several entrances and several exits...



Design

- Engineering involves solving a presented problem – could be design, could be diagnosis
- Problem solving requires a formal process...

