

CB 510

Project Management

Dr. Mohamed Saeid Eid

Fall - 2017

Resume

Dr. Mohamed Saeid Eid

- BS and MS in construction Engineering, AAST (2008, and 2012, respectively)
- PhD in Civil and Environmental Engineering, Construction focus, University of Tennessee, Knoxville (2017)

TA

- Eng. Mohamed Morsy
- Eng. Salma Alaa
- Eng. Esraa Hussein

Syllabus

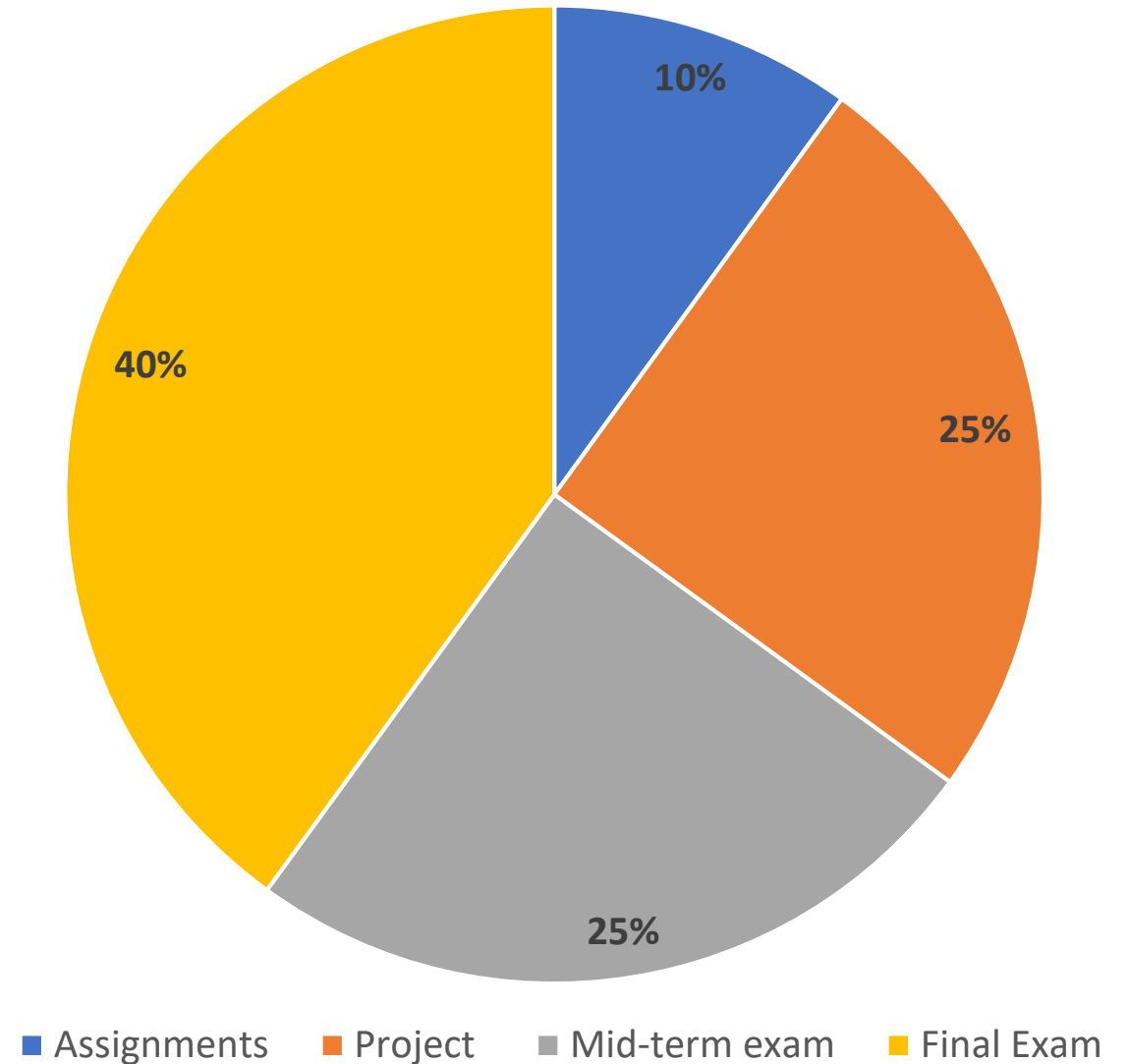
- What do you expect to learn?
 - Project planning and scheduling
 - Resource management
 - Time-Cost tradeoff
 - Cost control
- What will you gain from the class?
 - Skills needed for building projects management
- What do I expect from my students?
 - Attention and participation
 - Curiosity to learn

Syllabus - Content

Week#	Date	Title
1	16-21/9	Introduction, project management
2	23-28/9	Planning, WBS, Dependencies and Relationships
3	30/10 – 5/10	Representation – AOA and AON
4	7-12/10	Research trip – Quiz and class assignment
5	14-19/10	Scheduling – CPM
6	21-26/10	Scheduling – CPM and bar chart
7	28/10 – 2/11	7 th week exam
8	4-9/11	Repetitive activities scheduling (L.O.B)
9	11-16/11	Resource Allocation
10	18-23/11	Project updating
11	25-30/11	Time-cost tradeoff
12	2-7/12	12 th week exam
13	9-14/12	Cash flow
14	16-21/12	Project Presentation
15	23-28/12	Revision

Syllabus – Grading

- 30% on the 7th week
 - 5% assignments
 - 10% project deliverables
 - 15% exam
- 20% on the 12th week
 - 5% assignments
 - 5% project deliverables
 - 10% exam
- 10% project presentation
- 40% final exam



Class rules

- Contact
 - No phone calls. Each call worth -5% of your grade.
 - eng.saeid@gmail.com
 - Use an appropriate subject title, and English language only
 - Website: Msaeideid.com
- Late assignments
 - No late assignments are accepted beyond due date
- Teamwork
- Class ethics and *Academic Honesty*
- NO CELL PHONES!

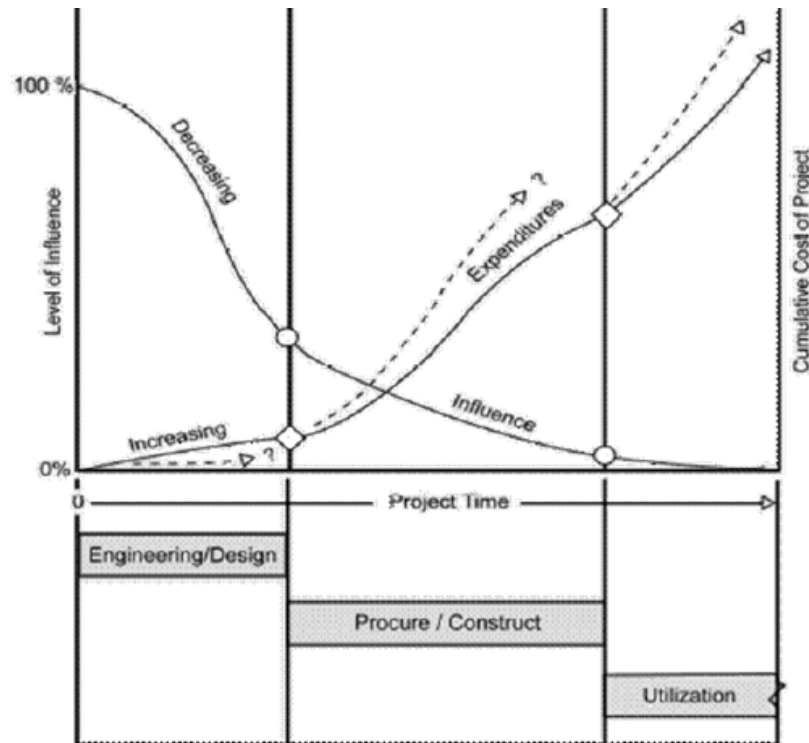
Project Management

- Different Types of construction projects

Project type	Architect and Civil Engineers involvement	Labor and Equipment
Residential	Architect	Labor
Commercial	Architect and Civil	Labor and Equipment
Heavy	Civil	Equipment
Infrastructure	Civil	Equipment
Industrial	Civil and Mechanical	Equipment

Project Management

- What is project?
 - A project is a temporary set of activities with a defined start and end to achieve a specific goal.



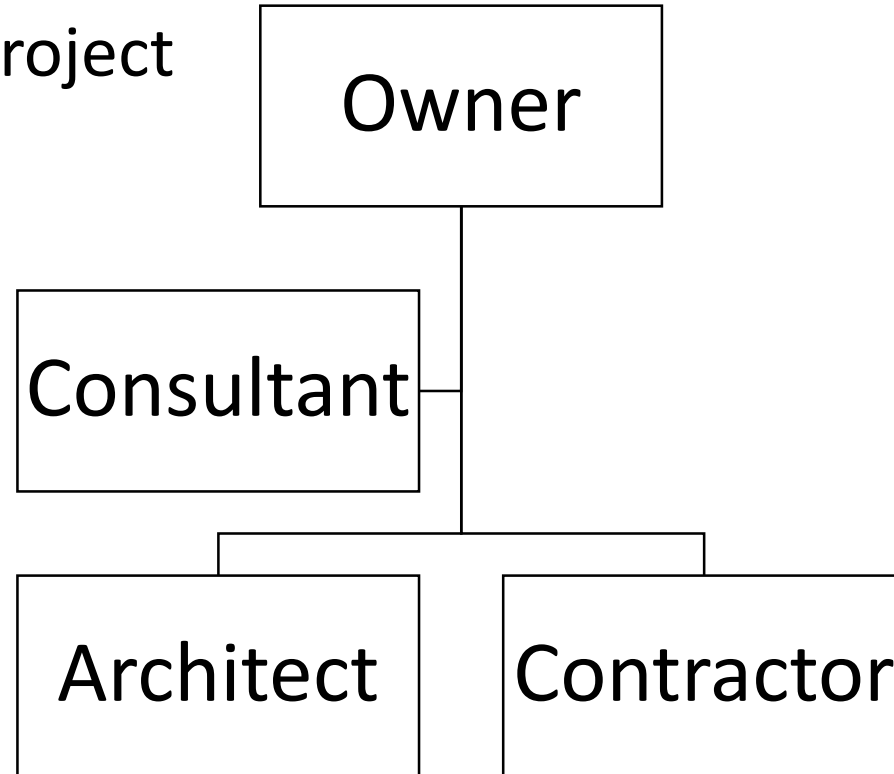
Project Management

- What is project management?
 - Is the application of knowledge, skills, and tools to achieve the specified goal.
- Project management life cycle
 - Initiating, planning, executing, controlling, and closing.

Project Management

- Stakeholders (participants) of the project

- Owner
- Consultant
- Architect
- Contractor



Project Management

- Four main phases of any project
 - Pre-construction
 - Tendering
 - Construction
 - Closeout and operation

Project Phases

- Pre-construction
 - Conceptual design
 - Owner and consultant intense
 - Define the project main goals, location, and feasibility
 - Schematic design
 - Architect, consultant, and owner
 - Design alternatives
 - Design development
 - Design the main components of the system
 - Contract documents
 - Consultant intense
 - Prepare the tendering documents (drawings, BOQ, type of contract)

Project Phases

- Tendering
 - Moving the project from design to construction
 - Defining the contractor and estimated cost
 - The project can be phased and dividing it into packages

Project Phases

- Construction
 - Contractor and Consultant oriented
 - Actual physical construction of the project
 - Most expensive phase

Project Phases

- Closeout and Operation
 - Finishing the project and start utilizing it
 - Development of as-built plans
 - Start of warranty period
 - Actual cost and duration of the project should be documented

Project Phases

	Owner	Consultant	Architect	Contractor
Conceptual design	✓	✓	✓	
Tendering	✓	✓		
Construction		✓		✓
Closeout	✓	✓		✓