

me293 – Project Management & Social Responsibility

What Will Be on The Midterm Test

Details: 1 hour, 20 minutes long; Open Notes; Calculator [***** Indicates Topics that WILL BE ON THE TEST**]

Assignment 1

- Re-state Client Question
- Ideation (come up with 10 plus ideas)
- Sustainable vs Traditional Design Choices

Assignment 2

- Restate Question
- Ideation (come up with 10 plus ideas)
- ***** Requirements vs Specifications**
- Defining the Interfaces
- Selecting the idea to move forward on
- Sketching

Assignment 3

- ***** Create a Gantt Chart from a list of tasks**
- ***** Consider 'What-if' Scenarios based on the project Gantt Chart**

Assignment 4

- ***** Gantt Chart Creation from Project List (with Predecessors)**
- ***** Network Diagram and Summary Table (ES, LS, EF, LF, Slack, Critical Path)**
- ***** Crashing a Project (How much will it cost to get the project delivered at an earlier date.)**
- ***** Leveling a Project (Evening out the resources of a project of its duration.)**

Assignment 5

- ***** Organizing a Project** (The Instrumented Chin-up Bar)
 - ***** Spider Diagram**
 - ***** Defining Areas of 'Worry' and Planning for Them**
 - ***** Gantt Chart – Draft, Gantt Chart – Level human effort**
 - ***** Network Diagram and Summary Table (ES, LS, EF, LF, Slack, Critical Path)**
 - Cost Estimating

Assignment 6

- Critical Thinking and Skepticism

Week 7 & 8 Lectures

- Working with people
- Working with clients

Assignment 7

- ***** Time Value of Money**

Assignment 8

- FMEA (Failure Analysis) and the Bicycle

Week 10 Tutorial

- Being More Creativity and the Cat Little Box