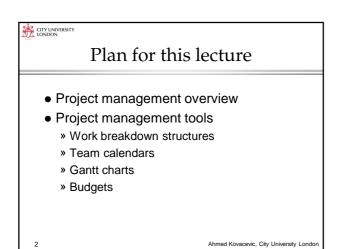


School of Engineering and Mathematical Sciences Room C130, Phone: 8780, E-Mail: <u>a.kovacevic@city.ac.uk</u> <u>www.staff.city.ac.uk/~ra600/intro.htm</u>

Ahmed Kovacevic, City University Londo



Managing Design

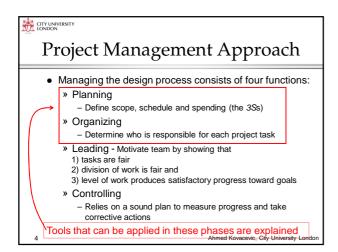
(Academic Project Management)

- Design is an activity that can consume significant time and resources
- This lecture outlines various techniques that allow a team to manage and control a design project
- The 3Ss of project management:
 - » Scope

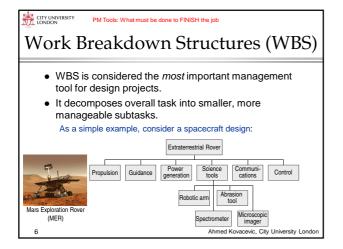
CITY UNIVERSITY

- To know the goals and to accomplish them
- » Spending
- To complete the project within the specified budget » Scheduling
 - To finish the project "on time"

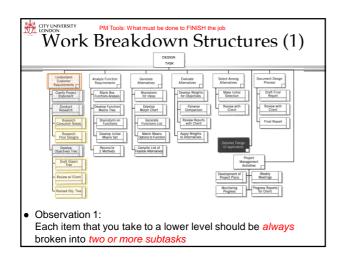
Ahmed Kovacevic, City University Londor



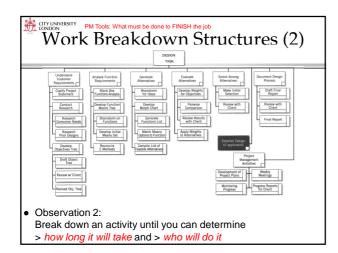




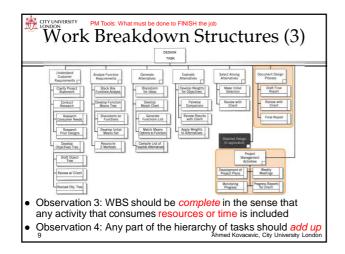




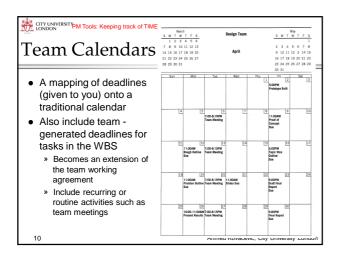






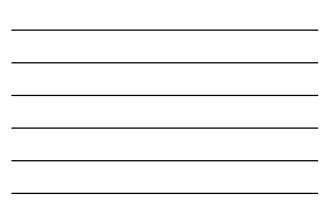












PM Tools: Keeping track of TIME

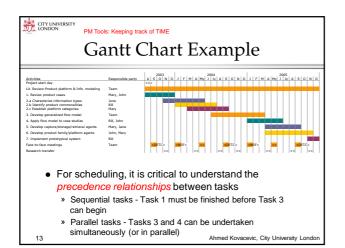
Gantt Charts

- The Gantt chart is named after a well known industrial engineer, Henry Laurence Gantt
- During World War I (1910s), he studied manufacturing processes and labor utilization to improve the productivity of munitions factories
- A Gantt chart is an easy-to-use, valuable Project Management tool
- It shows, in one table:
 - » Tasks to be completed
 - » Persons responsible

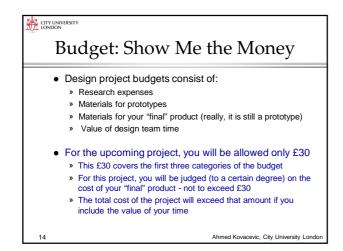
12

- » Start, duration, and end times/dates
- » Activity precedence (what has to be done first, in what order)

Ahmed Kovacevic, City University London







THE STATISTICS THE THE MONEY

15

Value of Design Team Time

- · A simple algorithm to estimate value of design team time » Cost_{team} = M_{overhead} * Cost_{direct}
 - » $M_{overhead}$ is a multiplier that covers fringe benefits, supervision, profit and facilities costs to the organization
 - » $\textit{Cost}_{\textit{direct}}$ is the money/pay that you, the designer, would see in a paycheck $M_{overhead} = 2 - 4$ $Cost_{direct} = \pounds 15 - 50$ /hr

» Typical values:

• Even at a minimal wage (£5/hr) for a design team of five for ten hours a week for ten weeks, the cost is £5000-10,000

Ahmed Kovacevic, City University Londor

