Project Planning & Control

Lesson 4

Gantt / Bar Chart - History, Representation, Progress Monitoring, Uses, Steps to draw a Bar Chart

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Learning Objectives

- Gantt Charts
  - History
  - Representation
  - Alternatives
  - Monitoring
  - Exercise
  - Demo - Spreadsheet
HISTORY OF “GANTT” CHART

• **Karol Adamiecki**, 1890’s- Polish engineer
  
  – ran a steel works in southern Poland
  
  – interested in management ideas and techniques.

• **Henry Gantt**: Around 1910 (Some 15 years after Adamiecki)
  
  – American engineer and management consultant,
  
  – Worked with Frederick Taylor
  
  – Used for production in WW-1
  
  – Planning of Hoover dam & Interstate highways

• One of the most popular and useful ways of showing activities (tasks or events) displayed against time.

• On the left of the chart is a list of the activities and along the top is a suitable time scale.

• Each activity is represented by a bar; the position and length of the bar reflects the start date, duration and end date of the activity.
What does Gantt chart show you??

- What the various activities are
- When each activity begins and ends
- How long each activity is scheduled to last
- Activities to be performed on a given day
- Where activities overlap with other activities, and by how much
- The start and end date of the whole project
## Non-Continuous Activities

<table>
<thead>
<tr>
<th>Activities</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
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<tr>
<td>A</td>
<td></td>
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<td>B</td>
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Milestones Chart

Source: http://www.ganttchart.com/Evolution.html
Progress Monitoring

Source: http://www.ganttchart.com/Evolution.html
Progress Monitoring

Data day

DAYS

ACTIVITIES

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
STEPS TO DRAW GANTT CHART

1. Identify activities
2. Identify milestones
3. Identify expected time and sequence of tasks
4. Draw horizontal time axis
5. Write down activities in column on the left hand side
6. Represent activities for specific time duration with rectangle bars
7. Fill shade the bars as and when activities are completed
8. Keep in track of the progress of the project