Project Planning & Control

Lesson 6 Bar Charts for Resource Usage, Pros and Cons

Koshy Varghese, Ph.D.

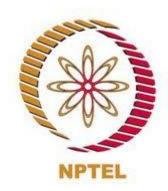
Professor

Building Technology & Construction Management

Department of Civil Engineering

I.I.T. Madras







Gantt Chart – Resource Usage



Activity	Description	Duration (days)	Cost (Rs)		
1	A	3	3000		
2	В	3	6000		
3	С	4	4000		
4	D	5	2000		
			15000		



Step 1 - Create Chart



	Days									
Activity	1	2	3	4	5	6	7	8	9	10
A										
В										
C										
D										



Step 2 - Enter Planned Cost Data



	Days									
Activity	1	2	3	4	5	6	7	8	9	10
A										
В										
С										
D										
Cost of Work Done (000's)	1	3	3	2	1	1.4	1.4	1.4	0.4	0.4
Cumulative Cost (000's)	1	4	7	9	10	11.4	12.8	14.2	14.6	15
Percentage (%)	6.6	26	45	60	67	77	86	95	97.5	100



Step 3 - Draw Cost-Completion Curve



	Days									% Planned Cost	
Activity	1	2	3	4	5	6	7	8	9	10	
A											
В											50-75%
С											75-100%
D											0-25 %
Cost of Work Done (000's)	1	3	3	2	1	1.4	1.4	1.4	0.4	0.4	
Cumulative Cost (000's)	1	4	7	9	10	11.4	12.8	14.2	14.6	15	
Percentage Planned Cost	6.6	26	45	60	67	77	86	95	97.5	100	

What control information can be represented on the Gantt Chart?



PROS & CONS



PROS

- Intuitive Representation
- Communication to Any Level in the Organization
- Excellent Representation for Final Planning & Monitoring Information
- Ideal for projects that simple, sequential

CONS

- Dependencies Cannot be Represented No Logic
- Limitation in Number of Activities Represented
- Cannot be Used as an Analytical Tool
- Can be very complex to prepare for large projects







Questions & Discussion