



**LaACES
Student
Ballooning
Course**

MS Project Example

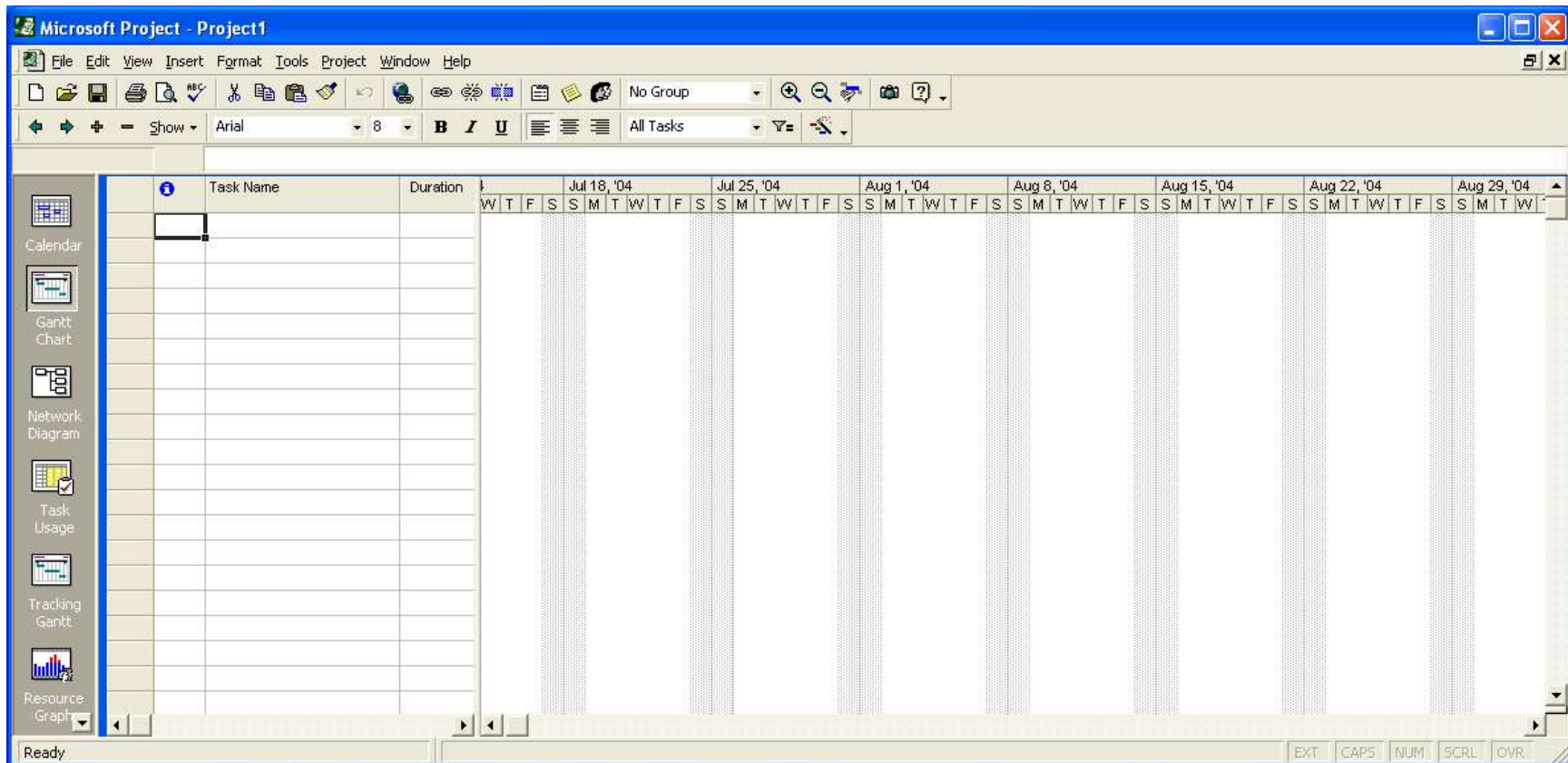
Project Management Unit #4a



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New Project Screen

- On starting Project a blank template will appear.





Basic Project Information

- From the “Project” menu select “Project Information” and enter the anticipated project start date.

Project Information for 'Project1'

Start date: Mon 1/24/05

Finish date: Mon 7/26/04

Schedule from: Project Start Date

All tasks begin as soon as possible.

Current date: Mon 7/26/04

Status date: NA

Calendar: Standard

Priority: 500

Help Statistics... OK Cancel



Enter the major tasks

- Type in the major tasks (WBS level 1) in the “Task Name” box.
- Each row is a separate task
- Do not worry about the rest of the columns for now

The screenshot shows the Microsoft Project interface. The task list table is as follows:

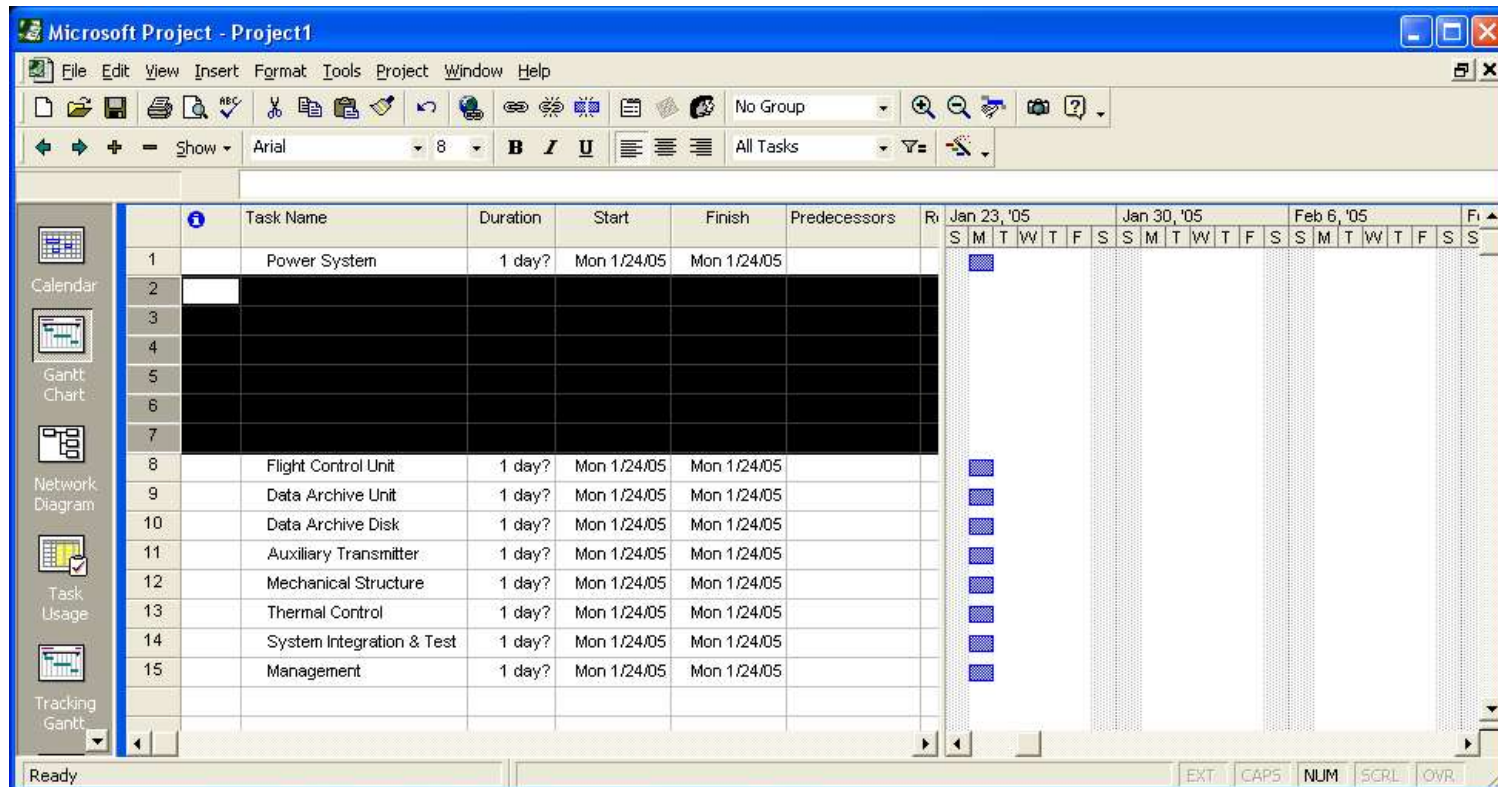
Task ID	Task Name	Duration	Start	Finish	Predecessors
1	Power System	1 day?	Mon 1/24/05	Mon 1/24/05	
2	Flight Control Unit	1 day?	Mon 1/24/05	Mon 1/24/05	
	Data Archive U				

The Gantt chart on the right shows task bars for 'Power System' and 'Flight Control Unit' starting on 1/24/05. The 'Data Archive U' task bar is currently empty.



Insert Rows

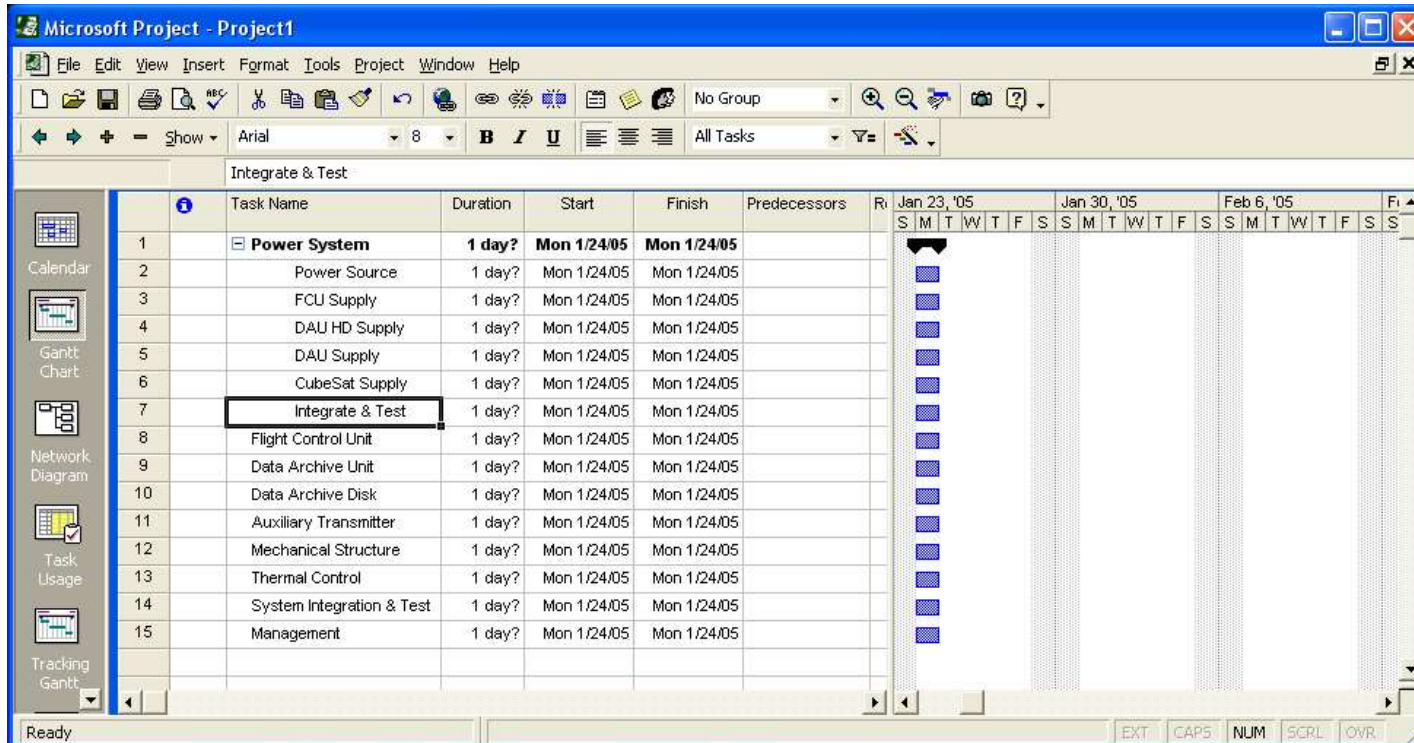
- Select the row above which you want to insert a subunit
- Select “New Task” from the “Insert” menu
- To delete a row, select the row and press the “Delete” key





Enter the subunit task names

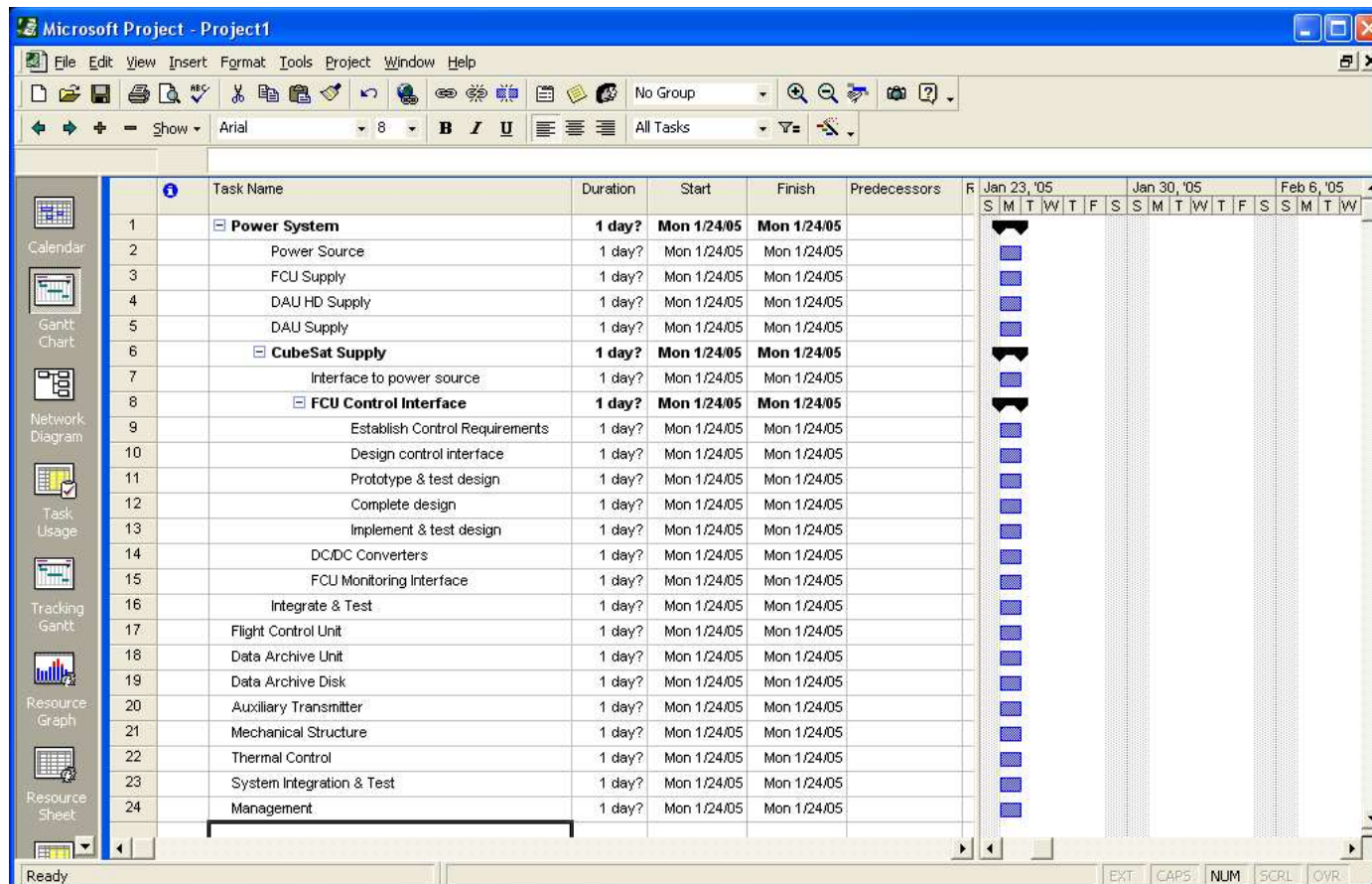
- Type in the name of the subunit task in the “Task Name” field
- Subunits are “indented” with the right arrow on the task bar
- When subunits are so “indented” the major unit will become bold and the Gantt chart bar will change shape





Complete entering WBS

- Process of inserting rows, typing in the task name and indenting the subunit continues until all tasks in the WBS are entered





Display the WBS code

- Select the “Information” column, right click and choose “Hide Column”.
- Next select the “Task Name” column and from the “Insert” menu select “Column”. The following pop-up will appear.
- Choose “WBS” as the “Field name”





Showing the WBS code

- The correct WBS code number will now be displayed for all tasks

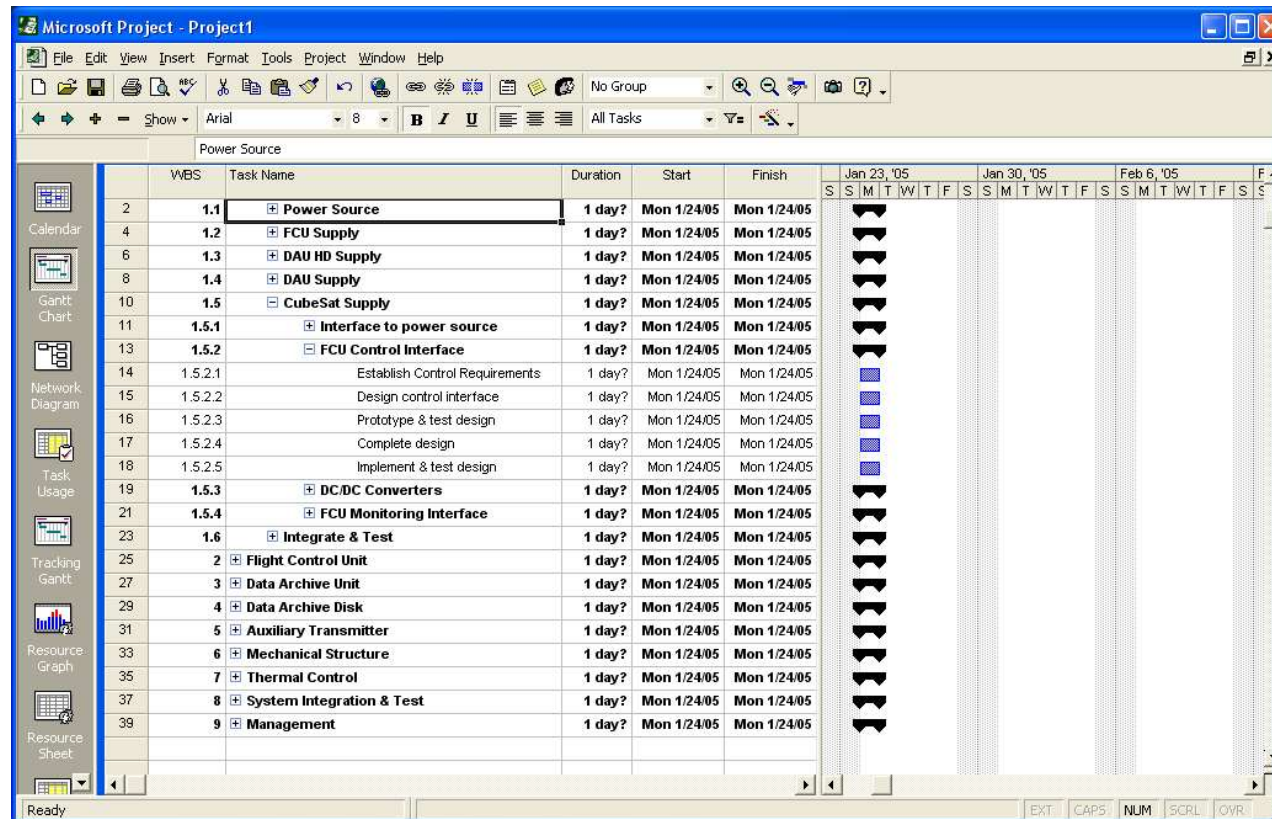
WBS	Task Name	Duration	Start	Finish
1	Power System	1 day?	Mon 1/24/05	Mon 1/24/05
1.1	Power Source	1 day?	Mon 1/24/05	Mon 1/24/05
1.2	FCU Supply	1 day?	Mon 1/24/05	Mon 1/24/05
1.3	DAU HD Supply	1 day?	Mon 1/24/05	Mon 1/24/05
1.4	DAU Supply	1 day?	Mon 1/24/05	Mon 1/24/05
1.5	CubeSat Supply	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.1	Interface to power source	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.2	FCU Control Interface	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.2.1	Establish Control Requirements	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.2.2	Design control interface	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.2.3	Prototype & test design	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.2.4	Complete design	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.2.5	Implement & test design	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.3	DC/DC Converters	1 day?	Mon 1/24/05	Mon 1/24/05
1.5.4	FCU Monitoring Interface	1 day?	Mon 1/24/05	Mon 1/24/05
1.6	Integrate & Test	1 day?	Mon 1/24/05	Mon 1/24/05
2	Flight Control Unit	1 day?	Mon 1/24/05	Mon 1/24/05
3	Data Archive Unit	1 day?	Mon 1/24/05	Mon 1/24/05
4	Data Archive Disk	1 day?	Mon 1/24/05	Mon 1/24/05
5	Auxiliary Transmitter	1 day?	Mon 1/24/05	Mon 1/24/05
6	Mechanical Structure	1 day?	Mon 1/24/05	Mon 1/24/05
7	Thermal Control	1 day?	Mon 1/24/05	Mon 1/24/05
8	System Integration & Test	1 day?	Mon 1/24/05	Mon 1/24/05
9	Management	1 day?	Mon 1/24/05	Mon 1/24/05



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Task bars

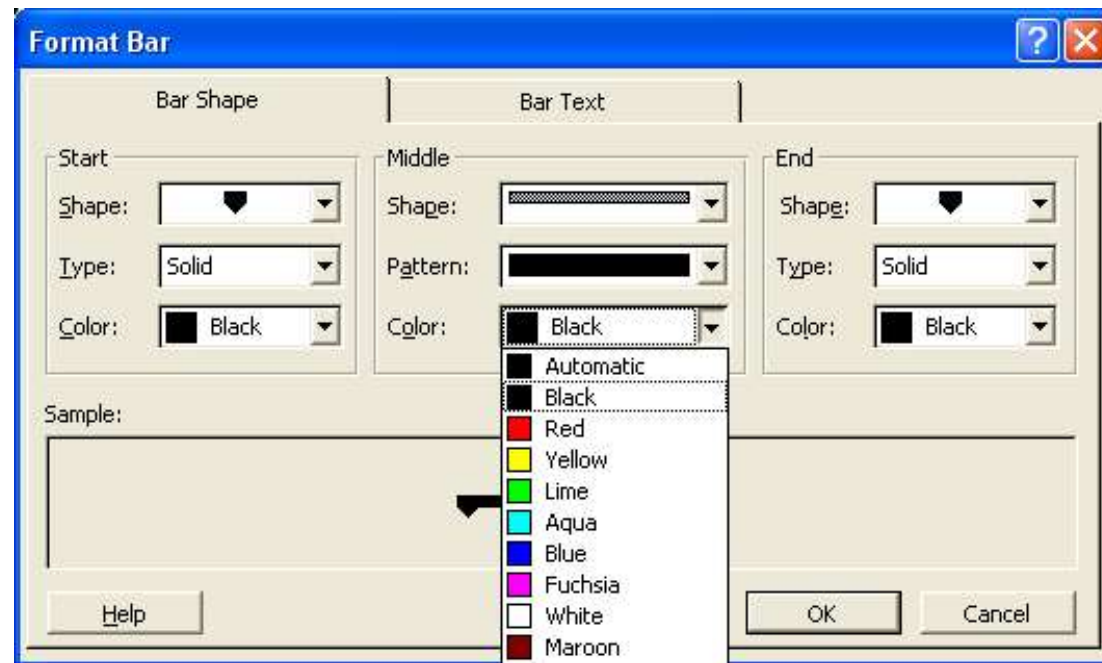
- With all subunits inserted the lowest level will be blue rectangles and higher levels will be black bars with points on the ends.





Distinguishing different levels

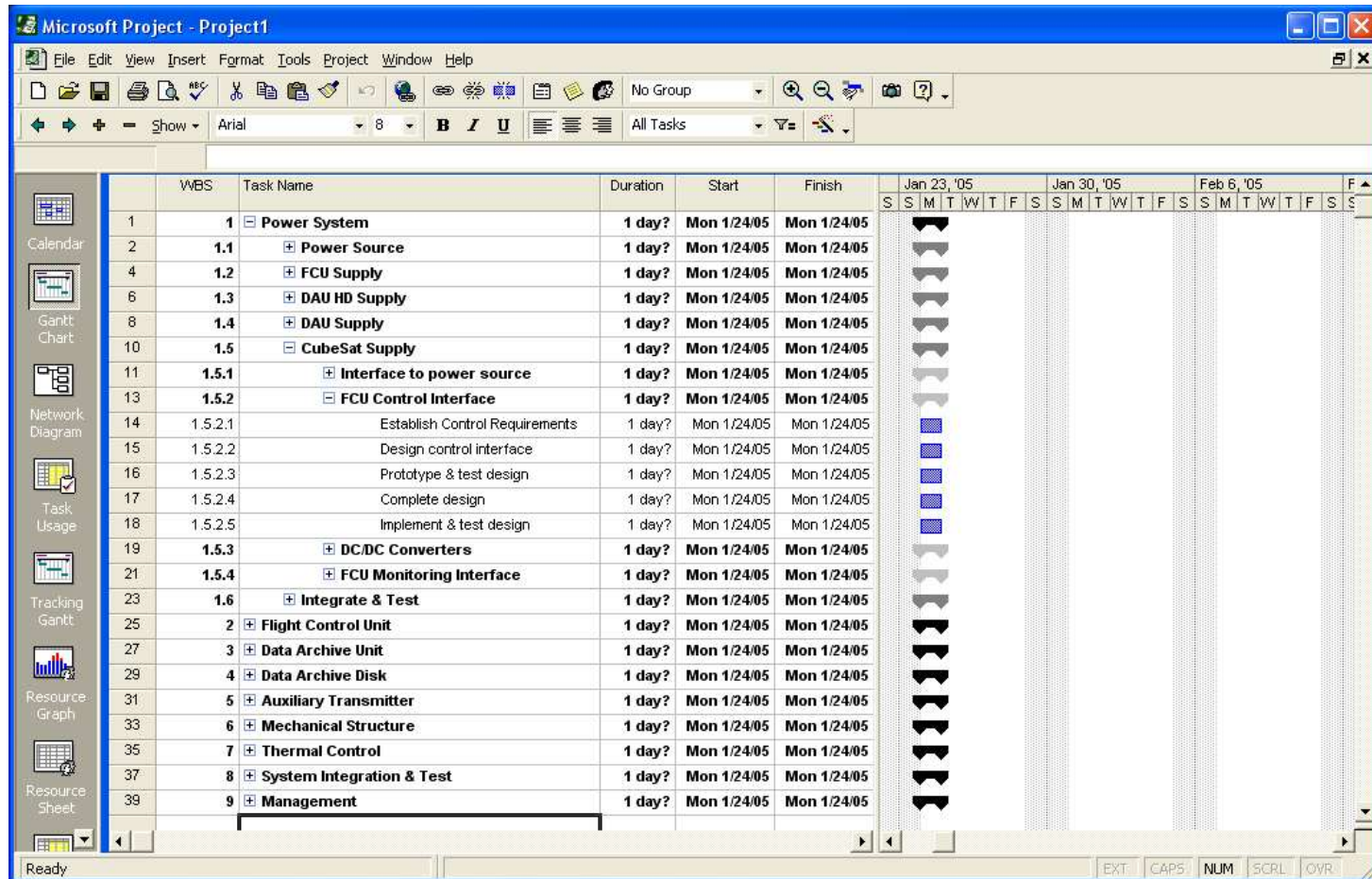
- You can change the color of the task bar to distinguish between the different levels in your WBS
- Select the task bar to change (in the Gantt chart area), right click and select “Format Bar”.
- Change the color of the “Start”, “Middle” and “End”





Results after task bar change

- The results of changing the task bar color are shown below

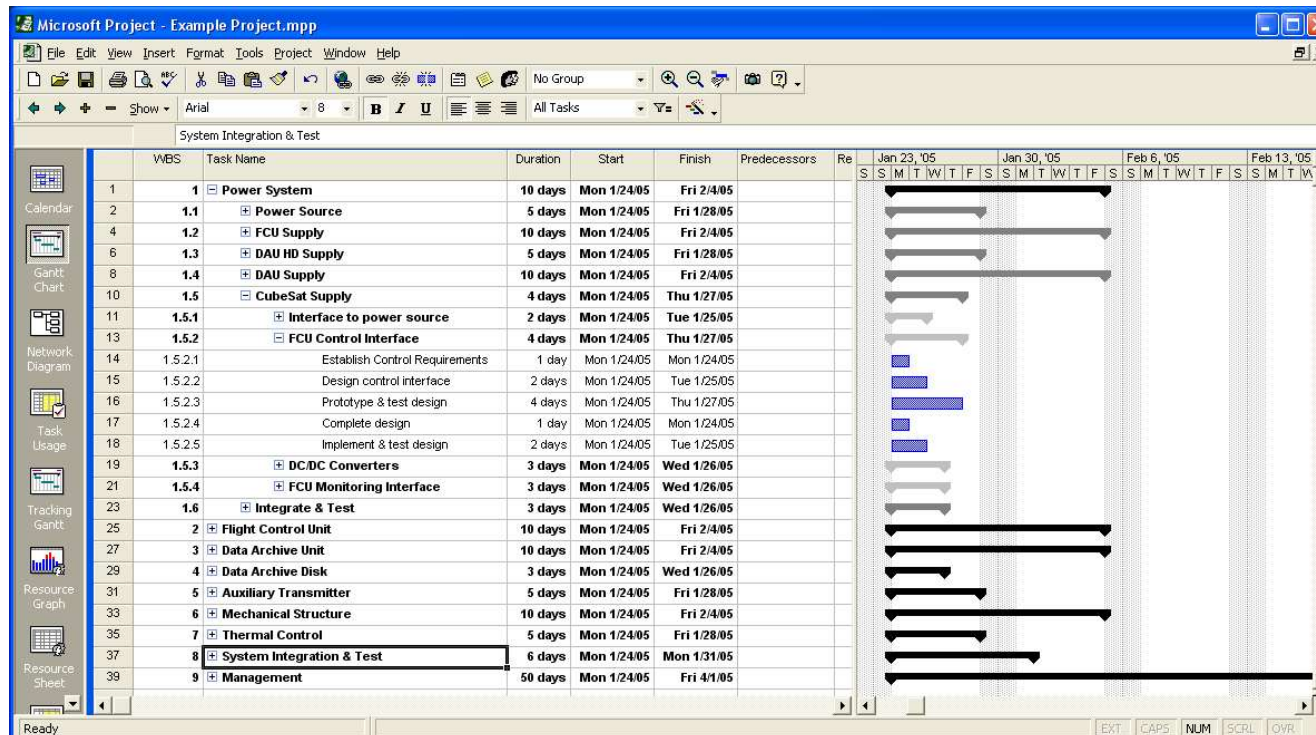




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Set the task durations

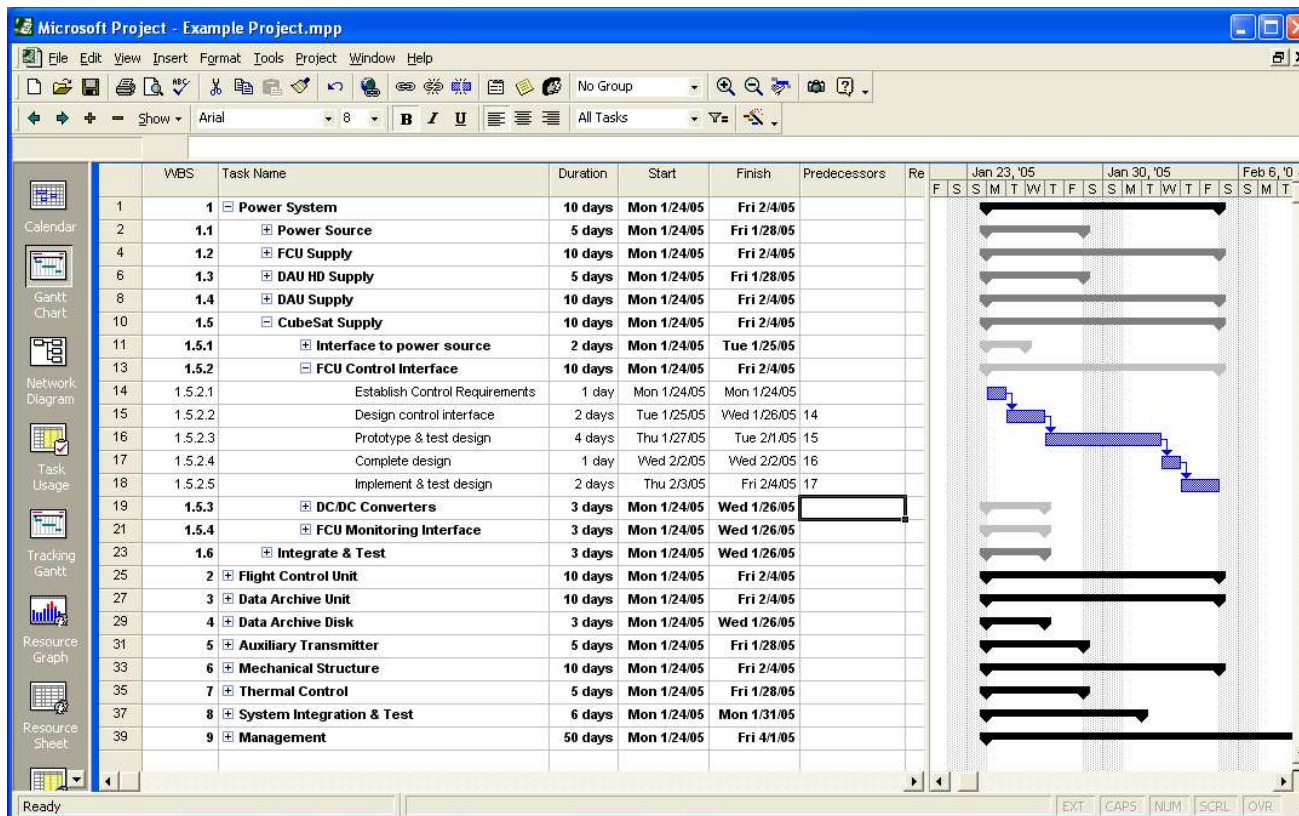
- Now enter the time associated with each task in the “Duration” field. See the MS Project Help for choices on units.
- Set durations for the lowest level tasks and the total time will be summarized or rolled-up to the next highest level.





Set the task predecessors

- Enter the task dependence (i.e. which tasks must be complete prior to starting the next task) in the “Predecessors” field.
- You need to use the row number, not the WBS code.

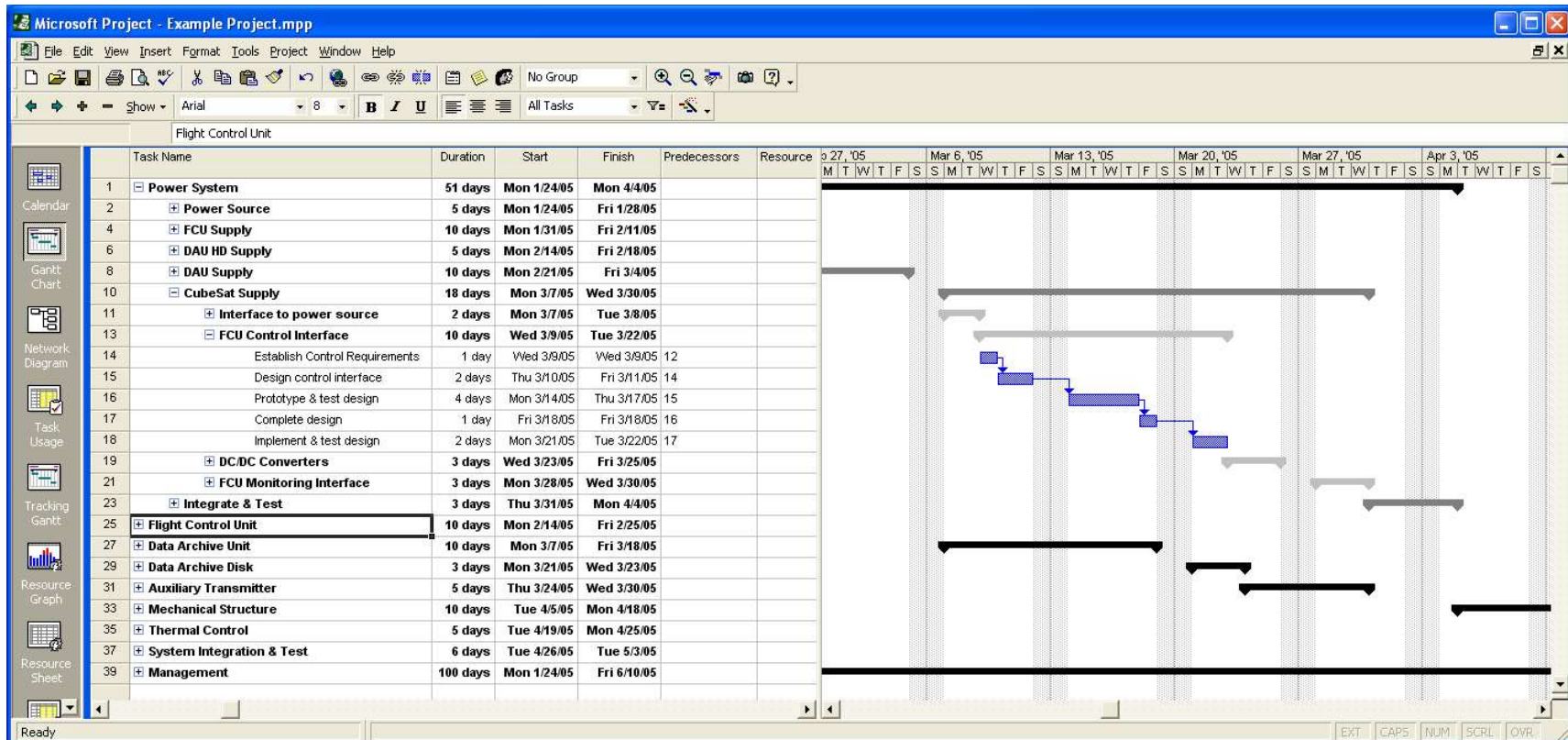




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Enter all predecessors

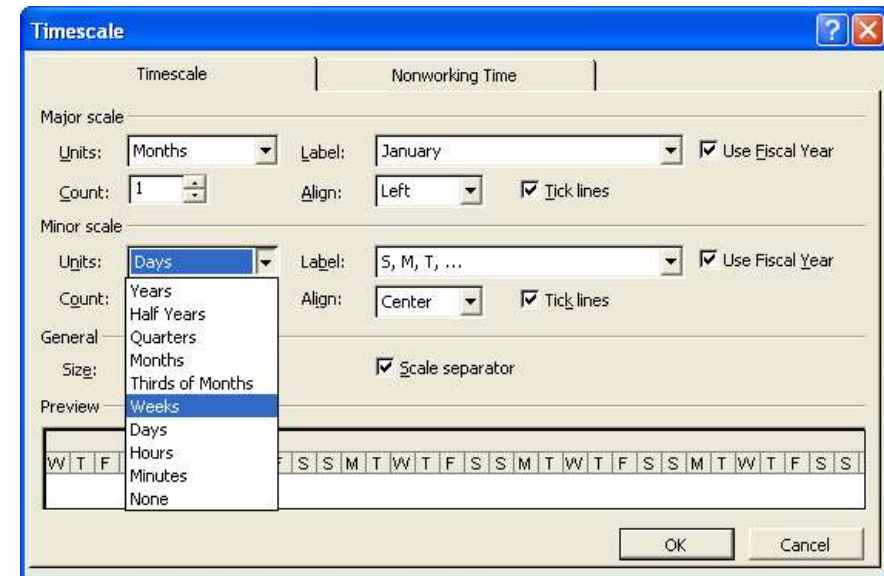
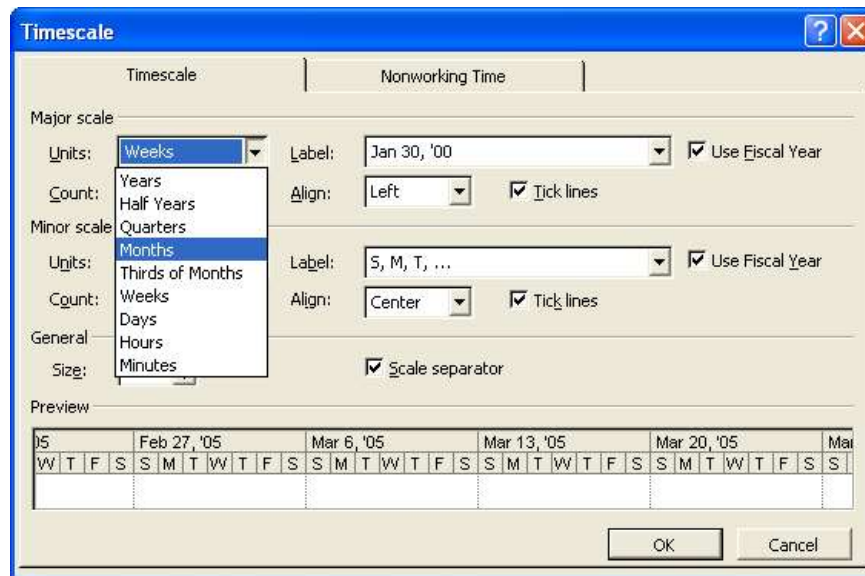
- Here all the task predecessors are determined and entered, but the Gantt chart now needs room to display fully





Set the timescale of the chart

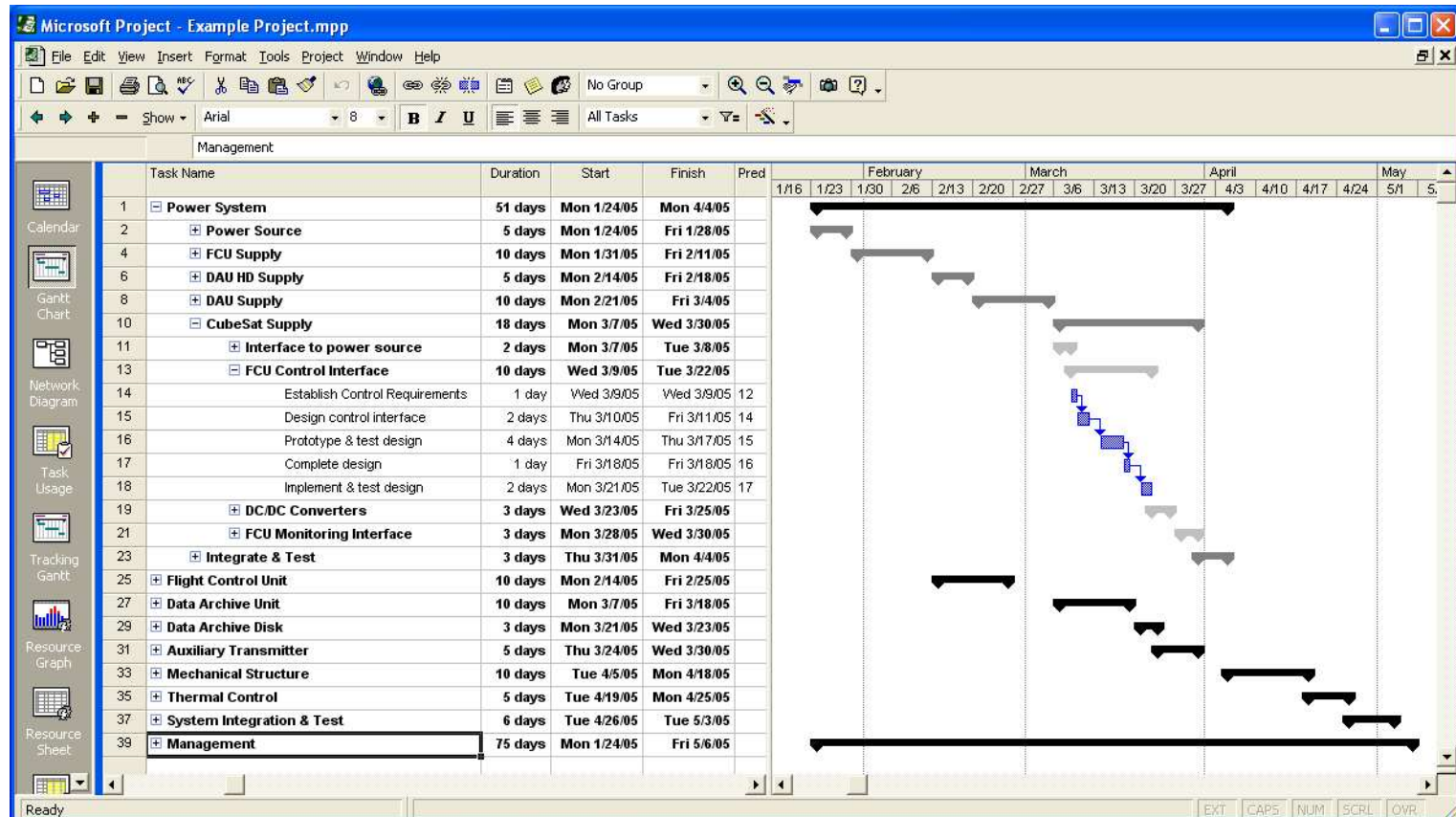
- From the “Format” menu select “Timescale”
- Set the Major Scale to Months
- Set the Minor Scale to Weeks





After timescale change

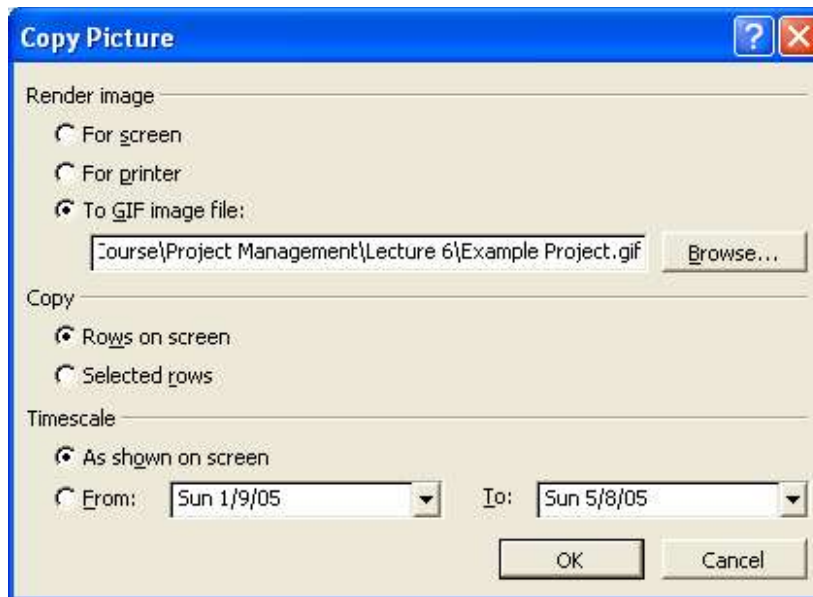
- Now the full Gantt chart from project start to end can be displayed





Make an image for documents

- To make a GIF image that can be inserted into documents, first arrange the chart and task info boundaries to display just what you want.
- From the “Edit” menu select “Copy Picture”
- Select “To GIF image file:” and enter a filename for the image



- Select what to copy: Rows on screen or Selected Rows
- Select the timescale as either what is shown on the screen or for specific dates
- Click OK and the image will be generated.



Final version of project

- Below is the GIF image of the example project ready to be inserted in a document.

