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CS 587 Software Project Management

Instructor: Dr. Atef Bader

MS Project Tutorial

MS Project in Labs:

- Available in Siegal Hall Lab in Main Campus
- Available in Room 210 Rice Campus

Prepared by **Milton Hurtado**





How to get MS Project?

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Download MS project from following link http://www.microsoft.com/office/project/







Embarking new Project

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- Go to file, select new. This will open a screen for blank project click ok.
- You can now enter your project information viz. start date, finish date and also how would you like to schedule the project from either start or finish date.
- You can also chose selection if you will be using night shifts.

Project Informa	ation for 'Project6'
Start <u>d</u> ate:	Thu 3/6/03
Einish date:	Thu 3/6/03
Schedule from:	Project Start Date
	All tasks begin as soon as possible.
Current date:	Thu 3/6/03
Status date:	Thu 3/6/03
C <u>a</u> lendar:	Standard
Priority:	500
<u>H</u> elp	Statistics OK Cancel



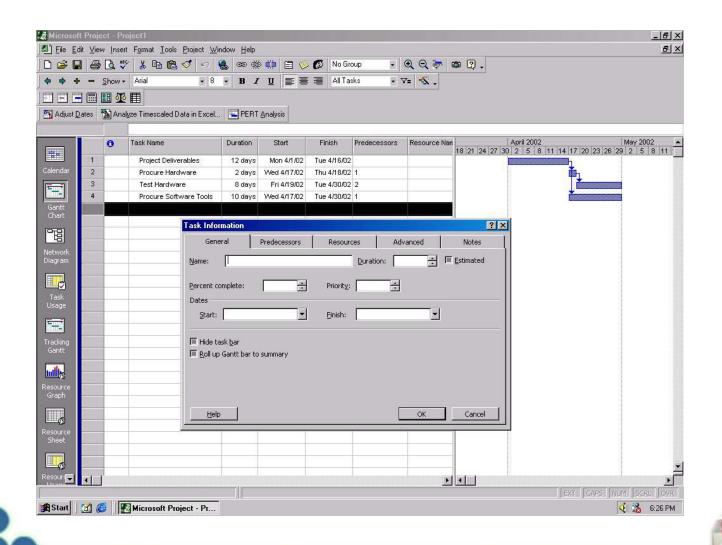
Gantt Chart



- Select Gantt Chart view from the view menu.
- You'll have a spreadsheet where you can now enter information of all the activities
 - i.e. task name, duration, start date, end date, predecessors and various other fields.
- You can enter required information in two ways, in spreadsheet or when you double click on cell you get pop up window in which you can enter all the information of that particular activity.
- For predecessor activity you need to write activity number.
- The SW itself will calculate start and end date.
- Now the Gantt Chart is complete.







Adding tasks and milestones to a Project File



- 1. On the View menu, click Gantt Chart.
- 2. In the Task Name field, type a task name, and then press TAB. (Microsoft Project enters an estimated duration of one day for the task followed by a question mark)
- 3. In the Duration field, type the amount of time each task will take in months, weeks, days, hours, or minutes, not counting nonworking time. (By default the time period will be days, but that can be changed to hours, months, etc.)
- 4. Press ENTER.
- 5. It should look like the figure below:

0	Task Name	Duration	Ja	n 1	9,'	03			
			S	M	Т	W	Т	F	S
	Activity 1	2 days							
		÷							

6. To add a milestone the only difference is that the duration of the activity must be zero (below is an example):

0	Task Name	Duration	Jan 19, '03 S M T W T F S
	Activity 1	0 days	4 1/23
		÷	

Note: By double clicking on a Task or milestone, you can modify its information with a form that prompts



Grouping Tasks in Logical Order (WBS Outline)



Outlining helps organize your tasks into more manageable chunks. You can indent related tasks under a more general task, creating a hierarchy. The general tasks are called summary tasks; the indented tasks below the summary task are subtasks. A summary task's start and finish dates are determined by the start and finish dates of its earliest and latest subtasks.

1. Click once on the first activity of the group of activities you want to group. For the example Activities 4

and 5

0	Task Name	Duration	Jan 19, '03 J S M T W T F S S
	Activity 1	1 day	
	Activity 2	1 day	
	Activity 3	1 day	
	Activity 4	1 day	
	Activity 5	1 day	

2. Then click on the option "New Task" in the "Insert" Menu to insert a new task that will represent the name of the group ("Group 1" for this example)

4	Group 1	1 day?	
5	Activity 4	1 day	
6	Activity 5	1 day	

3. Then select the tasks below (4 and 5) and then click in the option "Outline-Indent" in the "Project" Menu

4	☐ Group 1	1 day	
5	Activity 4	1 day	
6	Activity 5	1 day	



Creating Relationships Between Tasks



A network of tasks in a project must be connecting activities from the start to the end, to establish these relationship we need to use the field "Predecessors" of each task, where we can designate which activity will be preceding the one we are updating, in the example below we will indicate MS project that "**Activity 5**" can start once "**Activity 4**" is completed (**Finish to Start** relationship).

	0	Task Name	Duration	Predecessors), '03 T W T F S
1		Activity 1	1 day		
2		Activity 2	1 day		
3		Activity 3	1 day		
4		☐ Group 1	2 days		
5		Activity 4	1 day		
6		Activity 5	1 day	5	

Notice that by establishing the relationship now the Group 1 takes 2 days to be completed, because before, the activities were set to be performed in parallel, and now they are in series (**Finish to Start** relationship)

Note: MS project will calculate dates based on the durations of the tasks, their relationships and the start date set for the project, however it is possible to change the starting date of a task (if necessary) By double clicking on a Task or milestone, and using the fields related to the dates (Start or Finish)

Assigning Resources to Tasks



You can use the Resource Sheet in Microsoft Project to create a list of the people, equipment, and material resources that make up your team and carry out the project tasks. Your resource list will consist of work resources or material resources. Work resources are people or equipment; material resources are consumable materials or supplies, such as concrete, wood, or nails.

- 1. On the View menu, click Resource Sheet.
- 2. On the View menu, point to Table, and then click Entry.
- 3. In the Resource Name field, type a resource name.
- 4. You can go through the fields in the sheet, but for the simplicity of the example just focus on the name and initials of the Resource
- 5. Below is an example of some Human resources added to the Resource Sheet (We could add also other type of resources such as Equipments, Consumables, etc.)

	0	Resource Name	Туре	Material Label	Initials	Group	Max. Units	S
1		Project Manager	Work		P		100%	
2		Team Leader	Work		T		100%	
3		Developer	Work		D		100%	
4		Tester	Work		Т		100%	

6. Once the resources are created, you can go back to the View menu, and click Gantt Chart to see again the tasks, and then when you double click a task you can add a resource to this task by using the tab "Resources"

Note: The main goal of the resource assignment is to allocate properly the resources and to provide valuable information regarding the effort of the team.

Find Critical Path

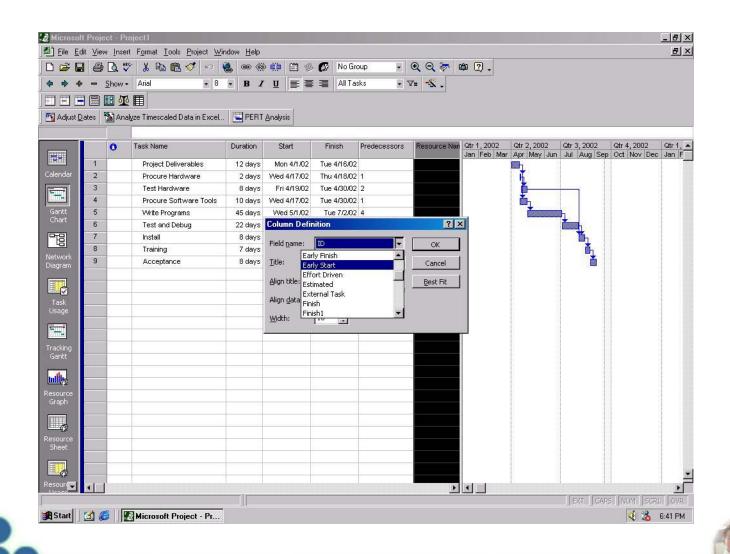


- Critical Path Analysis (CPA) helps you to lay out all tasks that must be completed as part of a project.
- CPA helps you to identify the minimum length of time needed to complete a project
- For finding CP list all the activities and enter early start, late start, early finish and late finish info of all the activities.
- You can do this under insert/columns and selecting each terms.
- Following screen shot demonstrates how to insert.
- Project automatically calculates ES, EF, LS and LF based on the starting/ending dates you have provided.

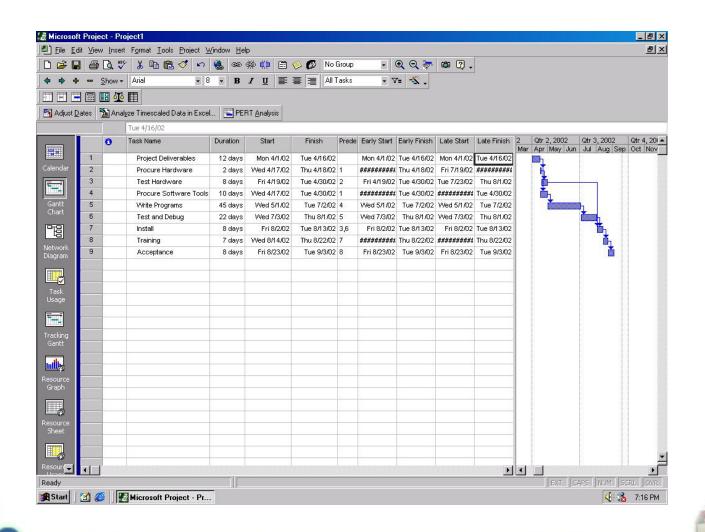










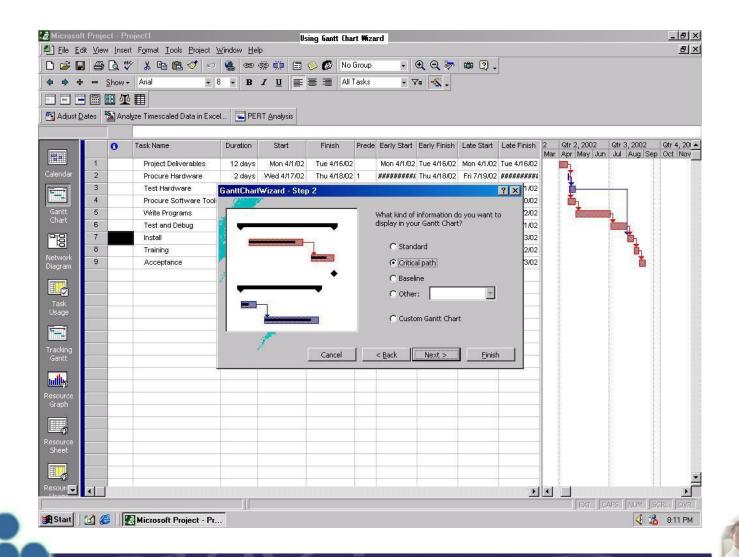


Showing Critical Path

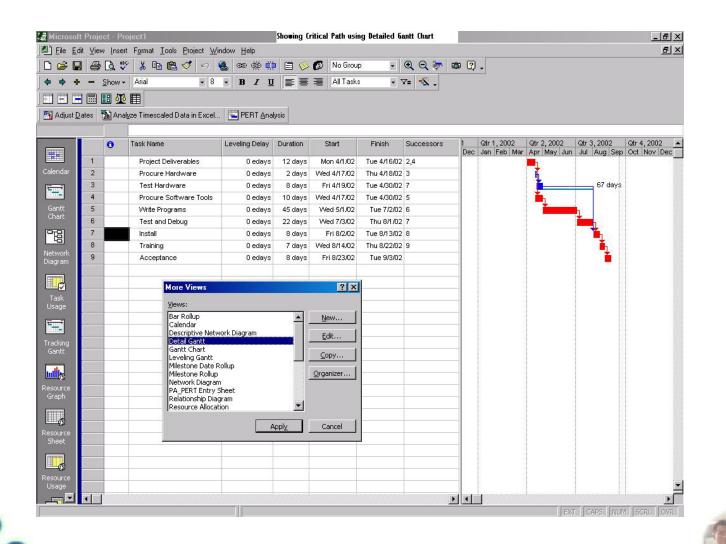
- You can show the critical path in multiple ways. You can show critical path using Gantt chart, Detailed Gantt, Network Diagram, and showing only critical tasks.
- In Gantt Chart click on Gantt Chart wizard and choose critical path and follow the steps.
- In Detailed Gantt click on View → More Views → Detailed Gantt → Apply. It shows the critical path with slack time.
- In Network Diagram click on View → More Views → Network Diagram → Apply.
- ◆ For showing only the critical tasks, click on Gantt Chart→filter→Critical.
- The following slides has screenshots of how to show critical path using various methods.



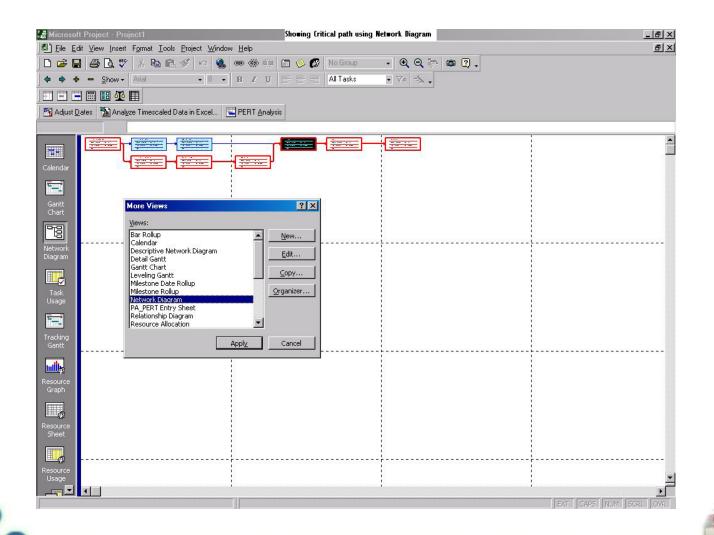




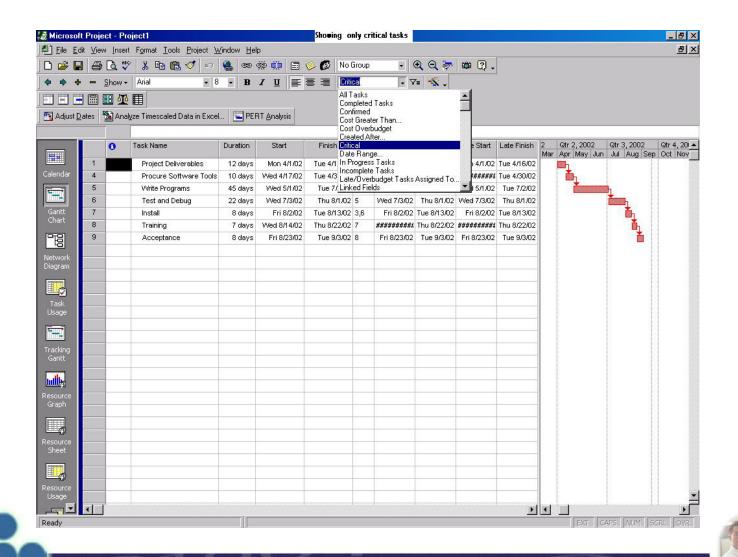








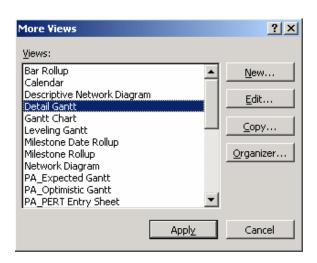




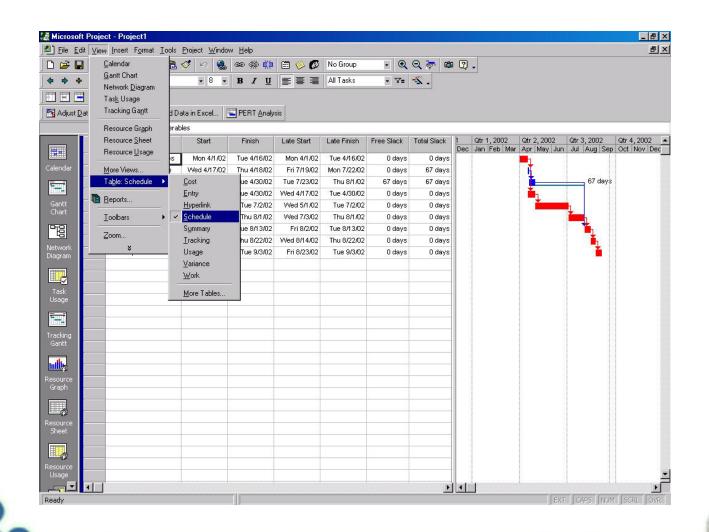
Slack Time For Scheduling

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- For viewing the schedule showing the slack go to Views → More views → Detailed Gantt view → Apply.
- ♦ In this click on View → Table → Schedule
- Slack appears as thin bars to the right of a task, with slack values adjoining the regular Gantt bars
- You can also view the free slack and total slack of a task in the sheet.
- You can move the activity within the available slack time, to balance the resources, in the cases where over allocation is present.







Closing Project

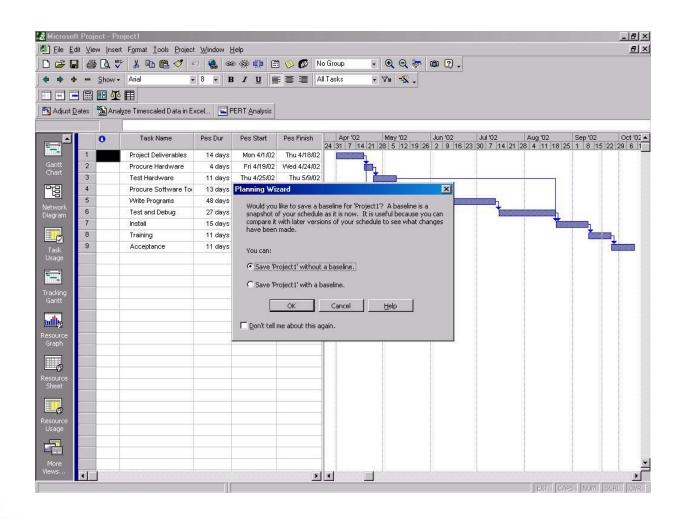
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- When you are saving a file it asks you whether you want to save with baseline/without baseline. You can choose either options.
- If you choose to save with baseline, a copy of your schedule and other things will be saved and any changes when you are making when the project progress can be viewed clearly using the baseline.
- If you choose to save without baseline, you will not be able to view the changes.









Step by Step Example



Now lets try a small example, step by step to practice each of the options we have seen so far about how to create a project using MS Project. We are going to use a small set of tasks (Table Below) related to the initial phases of a System Testing Plan (Definition and Design)

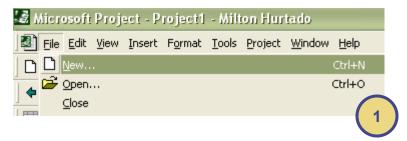
Activity	Predecessor	Responsibility	Effort	System Testing Phase
1.RSD Analysis *	Requirements Specification Document completed. (Not part of System Testing Plan)	Test ManagerProject ManagerTest Leader	3 days	Definition Phase
2. Develop Test Plan	Activity 1	•Test Manager •Test Leader •Tester E	5 days	Design Phase
3. Develop Test Design Specification	Activity 2	•Tester A and B	8 days	Design Phase
4. Develop Test Case Specification	Activity 3	•Tester A and B	5 days	Design Phase
5. Develop Test Procedure Specification	Activity 4	•Tester A and B	3 days	Design Phase
6. Develop Test Item Transmittal Report	Activity 5	•Tester A and B	1 days	Design Phase
7. Prepare Tools and Test Scripts	Activity 6	•Tester A and B	3 days	Design Phase
8. Review Test Plan and Attachments	Activity 7	•Test Manager •Test Leader •Tester E	2 days	Design Phase
9. Check that System is Ready to be Tested	Activity 7	•Tester E, A and B	1 days	Design Phase
10. Add Design Documents to CMS (Milestone)	Activity 8	•Test Leader •Tester E, A and B	1 days	Design Phase

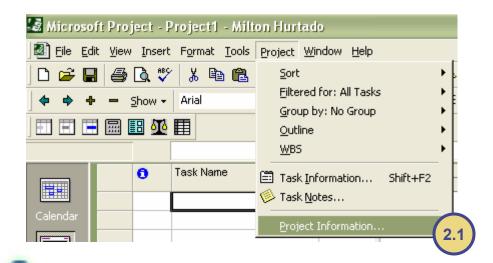


Step by Step Example (Step 1 - Setup File)

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- Create a new file "Project1"
- 2. Assign the start date of the project to be Dec-02-2002





Project Infor	mation for 'Project1'
Start <u>d</u> ate:	Mon 12/2/02 ▼
<u>F</u> inish date:	Thu 12/12/02
Schedu <u>l</u> e from:	Project Start Date
	All tasks begin as soon as possible.
Current date:	Fri 1/24/03
Status date:	NA 🔻
C <u>a</u> lendar:	Standard •
Priority:	500
<u>H</u> elp	Statistics OK Cancel 2.2

Step by Step Example (Step 2 – Add Tasks)



- 1. Write the name of each task in the spreadsheet using the column "**Task Name**"
- 2. Write the duration in days of each task in the spreadsheet using the column "**Duration**"
- 3. Group the tasks by the Phase according to the table of tasks shown before, and add a group that encloses the phases named "System Testing Plan MCY-ADTT-ST-2002-01" this will represent the plan as a whole
- 4. Write the predecessors of each task in the spreadsheet using the column "**Predecessors**" (If you can't see the column, try to expand the vertical bar that divides the spreadsheet to the Gantt Chart)
- 5. To convert a Task in a Milestone, just double click the Task and go to the tab "Advanced" then check the box that says "Mark Task as a Milestone"

	0	Task Name	Duration	Dec 1, '02 S M T V
1		RSD Analysis	1 day?	
2		Develop Test Plan	1 day?	
3		Develop Test Design Spec.	1 day?	
4		Develop Test Case Spec.	1 day?	7
5		Develop Test Procedure Spec.	1 day?	
6		Develop Test Item Transmital Report	1 day?	
7		Prepare Tools and test Scripts	1 day?	
8		Review Test Plan and Attachments	1 day?	
9		Check - System is Ready to be Tested	1 day?	
10		Add Desgin Documents to CMS	1 day?	
			1	
			•	(1)

0		Task Name	Duration	Dec 1, '02									Dec 8, '02					
				S	1	VI.	Т	V	۷.	Т	F	S	S	S	М	Т	W	1
1		RSD Analysis	3 days		ı													
2		Develop Test Plan	5 days		ı													
3		Develop Test Design Spec.	8 days		ı													*
4		Develop Test Case Spec.	5 days		ı													
5		Develop Test Procedure Spec.	3 days		ı													
6		Develop Test Item Transmital Report	1 day		ı													
7		Prepare Tools and test Scripts	3 days		ı													
8		Review Test Plan and Attachments	2 days		ı													
9		Check - System is Ready to be Tested	1 day		I													
10		Add Desgin Documents to CMS	1 day		ı													
			-														9)



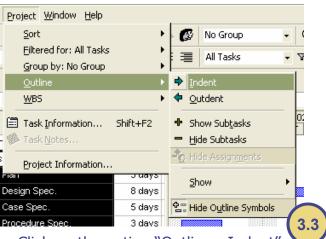


	0	Task Name	Duration	Dec 1, '02	Dec 8, '02
				SMTWTF	S S M T W 1
1		System Testing Plan MCY-ADTT-ST-200	1 day?		
2		RSD Analysis	3 days		
3		Develop Test Plan	5 days		
4		Develop Test Design Spec.	8 days		88,888
5		Develop Test Case Spec.	5 days		
6		Develop Test Procedure Spec.	3 days		
7		Develop Test Item Transmital Report	1 day		
8		Prepare Tools and test Scripts	3 days		
9		Review Test Plan and Attachments	2 days		
10		Check - System is Ready to be Tested	1 day		
11		Add Desgin Documents to CMS	1 day		

Insert a new task at the beginning that will group everything

	0	Task Name	Duration	Dec 1, '02 Dec 8, '02 S M T W T F S S M T W
1		System Testing Plan MCY-ADTT-ST-200	1 day?	
2		RSD Analysis	3 days	
3		Develop Test Plan	5 days	
4		Develop Test Design Spec.	8 days	
5		Develop Test Case Spec.	5 days	
6		Develop Test Procedure Spec.	3 days	
7		Develop Test Item Transmital Report	1 day	
8		Prepare Tools and test Scripts	3 days	
9		Review Test Plan and Attachments	2 days	
10		Check - System is Ready to be Tested	1 day	
11		Add Desgin Documents to CMS	1 day	

Highlight the tasks that are going to be added as subtasks



Click on the option "Outline - Indent"

	0	Task Name	Duration	c 1, '02 Dec 8, '02 M T W T F S S M T W T
1		☐ System Testing Plan MCY-ADTT-ST-2002-01	8 days	
2		RSD Analysis	3 days	
3		Develop Test Plan	5 days	
4		Develop Test Design Spec.	8 days	
5		Develop Test Case Spec.	5 days	
6		Develop Test Procedure Spec.	3 days	
- 7		Develop Test Item Transmital Report	1 day	
8		Prepare Tools and test Scripts	3 days	
9		Review Test Plan and Attachments	2 days	
10		Check - System is Ready to be Tested	1 day	
11		Add Desgin Documents to CMS	1 day	3.4

The final result should look like this, now repeat this steps to create the Subgroups that will represent the phases (Definition and Design)



	0	Task Name	Duration	C 1, '02 Dec 8, '02 M T W T F S S M T W T	nser	t F <u>o</u> rmat <u>T</u> ools	<u>Project Window H</u> elp		
1		☐ System Testing Plan MCY-ADTT-ST-2002-01	8 days?	- International -	A. A.B.	۶ 🌡 🖺 🖺	<u>S</u> ort)	
2		Definition Phase	1 day?				Filtered for: All Tasks	• [■ All Tasks •
3		RSD Analysis	3 days		ow ▼	1	Group by: No Group	١Ļ	= MII 1 dS/tS
4		Develop Test Plan	5 days		00	! ■	<u>O</u> utline	F	Indent Indent
5		Develop Test Design Spec.	8 days			RSD Analysis	<u>W</u> BS	→ 4	Dutdent
6		Develop Test Case Spec.	5 days			Task Name	Company to the control of the contro		
7		Develop Test Procedure Spec.	3 days				Task Information Shift+F2		♣ Show Subtasks
8		Develop Test Item Transmital Report	1 day			☐ System Tes	lask <u>N</u> otes		■ <u>H</u> ide Subtasks
9		Prepare Tools and test Scripts	3 days			Definition	Project Information		G Hide Assignments
10		Review Test Plan and Attachments	2 days			RSD Analy	SIS	Ţ.	Show
11		Check - System is Ready to be Tested	1 day			Develop Te	st Plan		
12		Add Desgin Documents to CMS	1 day		\	Develop Te	st Design Spec.	Q.	Hide Outline Symbols
nc	ert a	new task at the beginning of	the det	finition tasks		Develop Te	st Case Spec.	-:	5 days 3.

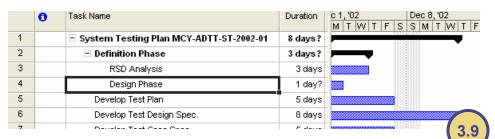
	0	Task Name	Duration	C 1, '02 Dec 8, '02
1		☐ System Testing Plan MCY-ADTT-ST-2002-01	8 days?	
2		Definition Phase	1 day?	
3		RSD Analysis	3 days	
4		Develop Test Plan	5 days	
5		Develop Test Design Spec.	8 days	
6		Develop Test Case Spec.	5 days	
7		Develop Test Procedure Spec.	3 days	
8		Develop Test Item Transmital Report	1 day	
9		Prepare Tools and test Scripts	3 days	
10		Review Test Plan and Attachments	2 days	
11		Check - System is Ready to be Tested	1 day	
12		Add Desgin Documents to CMS	1 day	
				T 3 6

Click on the option "Outline - Indent"

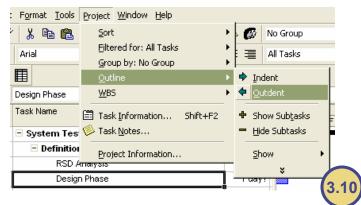
0	Task Name	Duration	C 1, '02 Dec 8, '02 M T W T F S S M T W T
1	☐ System Testing Plan MCY-ADTT-ST-2002-01	8 days	
2	□ Definition Phase	3 days	——
3	RSD Analysis	3 days	
4	Develop Test Plan	5 days	
5	Develop Test Design Spec.	8 days	
6	Develop Test Case Spec.	5 days	
7	Develop Test Procedure Spec.	3 days	
8	Develop Test Item Transmital Report	1 day	
9	Prepare Tools and test Scripts	3 days	
10	Review Test Plan and Attachments	2 days	
11	Check - System is Ready to be Tested	1 day	
12	Add Desgin Documents to CMS	1 day	

Highlight the tasks that are going to be added as subtasks

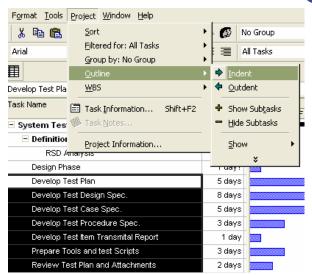
The final result should look like this, now repeat this steps to create the Subgroup that will represent the phase "Design"



Insert a new task at the beginning of the Design tasks (Notice that the new task that will work as a group for the "Design Phase" is inside the group "Definition Phase", therefore we need to **Outdent** one position to put it at the same level as the Definition Phase)



Click on the option "Outline-Outdent" to move the activity to the left



Highlight the tasks that are going to be added as subtasks in the design phase and then Click on the option "Outline - Indent"

0	Task Name	Duration	c 1, '02 Dec 8, '02 M T W T F S S M T W T
1	☐ System Testing Plan MCY-ADTT-ST-2002-01	8 days	landaniani landaniani
2	☐ Definition Phase	3 days	——
3	RSD Analysis	3 days	
4	⊡ Design Phase	8 days	-
5	Develop Test Plan	5 days	
6	Develop Test Design Spec.	8 days	
7	Develop Test Case Spec.	5 days	
8	Develop Test Procedure Spec.	3 days	
9	Develop Test Item Transmital Report	1 day	
10	Prepare Tools and test Scripts	3 days	
11	Review Test Plan and Attachments	2 days	
12	Check - System is Ready to be Tested	1 day	
13	Add Desgin Documents to CMS	1 day	(3.)

The final result should look like this



0		Task Name	Duration	Start	Finish	Predecessors		Dece	mber
							11/24	12/1	12/8 12/15 12/1
1		☐ System Testing Plan MCY-ADTT-ST-2002-01	31 days	Mon 12/2/02	Mon 1/13/03			_	
2		□ Definition Phase	3 days	Mon 12/2/02	Wed 12/4/02			•	
3		RSD Analysis	3 days	Mon 12/2/02	Wed 12/4/02			Ш	
4		□ Design Phase	28 days	Thu 12/5/02	Mon 1/13/03				
5		Develop Test Plan	5 days	Thu 12/5/02	Wed 12/11/02	3		Ĭ	<u></u> h
6		Develop Test Design Spec.	8 days	Thu 12/12/02	Mon 12/23/02	5			*
7		Develop Test Case Spec.	5 days	Tue 12/24/02	Mon 12/30/02	6			Ĭ
8		Develop Test Procedure Spec.	3 days	Tue 12/31/02	Thu 1/2/03	7			
9		Develop Test Item Transmital Report	1 day	Fri 1/3/03	Fri 1/3/03	8			
10		Prepare Tools and test Scripts	3 days	Mon 1/6/03	Wed 1/8/03	9			
11		Review Test Plan and Attachments	2 days	Thu 1/9/03	Fri 1/10/03	10			
12		Check - System is Ready to be Tested	1 day	Thu 1/9/03	Thu 1/9/03	10			
13		Add Desgin Documents to CMS	1 day	Mon 1/13/03	Mon 1/13/03	11,12			





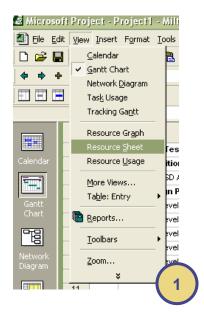
ation: 1d 😛 🗆 Estimated
straint date: NA Effort driven
5cheduling ignores resource calendars

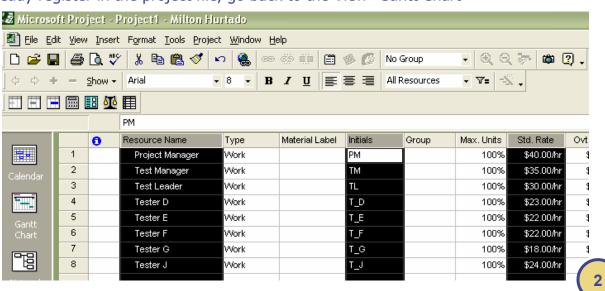


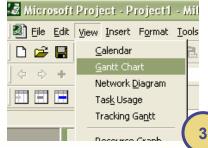
Step by Step Example (Step 3 – Add Resources)



- Got to the view "Resource Sheet"
- Add the necessary resources to the "Resources Sheet", we are going to use only the Name, Initials and Standard Rate in \$/hr. The resources are going to be taken from the table showed at the beginning of the example, more specifically from the column "Responsibilities"
- Now, with the Resources already register in the project file, go back to the View "Gantt Chart"





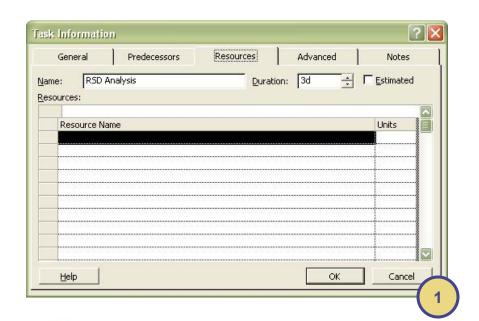


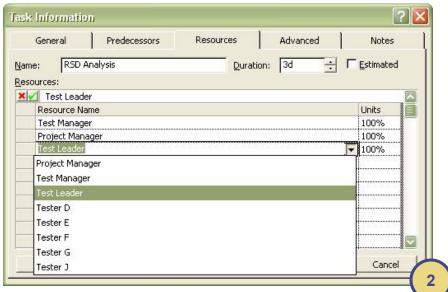


Step by Step Example (Step 4 – Assign Resources)



- Double click the task you want to link to resources available in the "Resource Sheet"
- Then got to the Tab "Resources" and look up the resources you want to relate to the activity (For the example lets keep the amount of effort of each Resources as 100%, Leveling Resources wont be covered in this tutorial), finally Click the "Ok" button to finish the assignment.
- Repeat steps 1 and 2 for the rest of the tasks





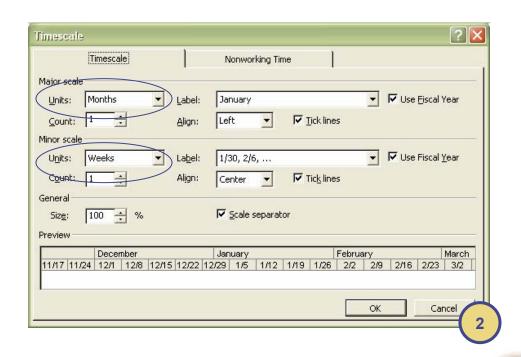


Step by Step Example (Step 5 – Adjust the Gantt Chart)



- Adjust the length of the Gantt Chart such that it can be seen in one screen (If Possible), to do this perform a Right Click on top of the Gantt Chart first, a pop-up menu will appear, select the option "Networking Time..."
- In the form that will open go to the tab "Time Scale" and Change the Major Scale Units to "Months" and the Minor Scale Units to "Weeks", then press the "Ok" button to see the results in the Gantt Chart. (Adjust as necessary the scales once you are familiar with them)





Step by Step Example (Step 6 – View the Critical Path)



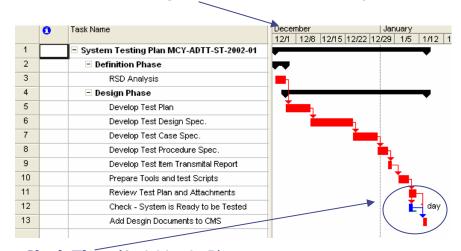
For the example, we are going to use the Detailed Gantt Chart to view the Critical Path, because this option also shows the **Slack Time** of the activities that don't belong to the critical path, therefore first we have to select the option "More Views"

Then we have to select the Detail Gantt to obtain the view desired (Adjust the Gantt Chart as explained before if is

necessary)



The View should look like this (If the Gantt Chart, doesn't appear check that you are in the right date on the Gantt Chart)



Slack Time (Activities in Blue are not part of the Critical Path)



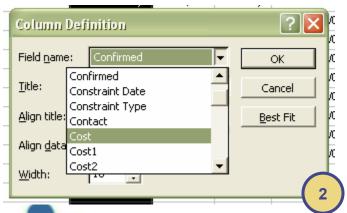
Step by Step Example (Step 7 - Show More Columns)



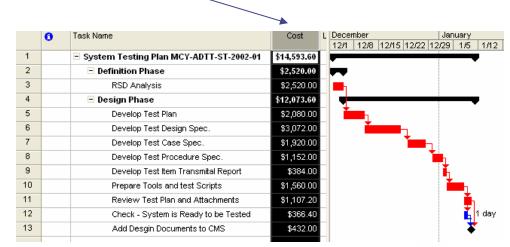
We can show more information, related to the tasks, in the spreadsheet, one column that might be of general interest is the cost, to do this first perform a Right Click on top of the spread sheet (Specifically In the titles of the Columns), a pop-up menu should appear showing several options, chose the one that says "Insert Column"

Then lookup the column named "Cost" and then press the "Ok" button





Now you should see the "Cost" Column, this cots is calculated based on the resources allocated for each Task, notice also that the groups automatically add up the cost of the subtasks making the view even more interesting.





Step by Step Example (Step 8 – A Better View)



As explained before, you can add and hide columns from the Spread sheet, this lets you show exactly what the people needs to see, below is a view with selected fields: Name, Cost, Duration, Resource initials and Start Date. The reader is welcome to experiment with this features and to explore more views that are offered by MS Project, such as resources

usage, cost reports, etc.

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			Mon 12/2/02					
		0	Task Name	Cost	Duration	Resource Initials	Start	December January F
	1		Contact To the Plan MCV ADTT CT 2002 At	444 502 60	20 4		Mon 12/2/(12/1 12/8 12/15 12/22 12/29 1/5 1/12 1/19 1/26
ndar	2		System Testing Plan MCY-ADTT-ST-2002-01 Definition Phase	\$14,593.60 \$2,520.00	30 days 3 days		Mon 12/2/02	
20	3		RSD Analysis	\$2,520.00	9.78 CO.A.S	PM,TM,TL		Project Manager,Test Manager,Test Leader
Ī	4		□ Design Phase	\$12,073.60	27 days	i miimite	Thu 12/5/02	- Toject manager processes
ntt	5		Develop Test Plan	\$2,080.00		TM,TL	Thu 12/5/02	Test Manager,Test Leader
art	6		Develop Test Design Spec.	\$3,072.00	1 200000	TL,T_J	Wed 12/11/02	Test Leader,Tester J
	7		Develop Test Case Spec.	\$1,920.00	5 days	TL,T_J	Mon 12/23/02	Test Leader,Tester J
100	8		Develop Test Procedure Spec.	\$1,152.00	3 days	TL,T_J	Mon 12/30/02	Test Leader,Tester J
ork am	9		Develop Test Item Transmital Report	\$384.00	1 day	TL,T_J	Thu 1/2/03	Test Leader,Tester J
-	10		Prepare Tools and test Scripts	\$1,560.00	3 days	T_G,T_J,T_D	Fri 1/3/03	Tester G,Tester J,Teste
,	11		Review Test Plan and Attachments	\$1,107.20	2 days	TM,TL,T_J	Wed 1/8/03	Test Manager,Test Li
sk	12		Check - System is Ready to be Tested	\$366.40	1 day	T_G,T_J,T_D	Wed 1/8/03	ester G,Tester J,Tes
ige	13		Add Desgin Documents to CMS	\$432.00	1 day	TL,T_J	Fri 1/10/03	₹ 1M0
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Step by Step Example (Step 9 - Save the File)



- 1. For this example we are saving the file at the end, but it is recommended that you save the file frequently while you are working to avoid losing data as a result of problems such as a Power Failure for instance.
- 2. You can chose between saving the file with or without Baseline (the difference was explained before in this Tutorial)



