

# DVANC MANAGEMEN with

For Time-Efficient Project Managers

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**ASMARIZAN BINTI MAT ESA ZAREENA BINTI ROSLI** 

## Advanced Project Management

### with Ms Project

For Time-Efficient Project Managers ©ePembelajaran Politeknik Merlimau

Writer

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## Preface

This book is one of the additional reference sources that focus on Project Management for all students who take Computer Application Subject or who are interested in this topic.

The book s originality is evident in the easy-tounderstand content, which is presented in a compact format to make it easier for students and readers to make references. The book is illustrated with photos that are linked to the issue being addressed, in order for the students to be able to relate to the real-life situation.

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# CHAPTER 1 PROJECT OPTIONS SETTING

#### **PROJECT OPTIONS SETTING**

There are many project s basic options and settings that can be customised in MS Project so that every schedule is set up the same way.

In this topic, we will learn how to set options to make it easier to start scheduling a project. These basic options are fundamental to starting a schedule on the right foot.

Changes to these settings can be made from the File tab, often known as the Backstage, or through the Microsoft Project user interface on the ribbon.

Microsoft Project offers three  $(\mathbf{3})$  types of options in the Project Options dialog.

These option types include:

#### • Application Options -

These options control how the software looks and works, and they impact every project you open. You only need to set these options once, as they are not project-specific.

#### • Project-Specific Options -

You can set these options to any project currently open. Because these options are project-specific, you can specify different options for each project, depending on the type of project.

#### • Options for All New Projects

These options impact all new projects created from the Blank Project If you regularly create new projects from a blank project, you definitely need to set these options so that you do not need to set them manually for every new project you create.



#### **Setting Your Project**

#### **Enter Plan Title and Other Properties**

The MS Project, like other Microsoft Office programs, maintains track of a variety of document attributes. Statistics, such as the number of times the document has been updated, are among these features. Other characteristics include information about a plan that you would want to keep track of, e.g., the name of the project manager, the project title, or search terms to aid in finding it. Majority of these characteristics are used in Page Headers, Page Footers, Reports, and Views when printing. The Properties dialogue box allows you to review and make a note of these properties.

	Proj	ject1 - Project Profess	ional	Asmarizan Binti Mat E	• (1) R (1)	- 8//
e	Info					
🛱 Home		1				
🗅 New	GD Copy path	]				
🗁 Open	B		App Accounts		Project Inform	ation ~
	Manage	You're not connecte	d to Project Web App		Start Date	Today
Info	Accounts				Finish Date	Today
					Schedule from	Start
Save					Current Date	Today
			bal Template		Status Date	Today
Save As		Move views, repo and the global ter			Project Calendar	Standard
Save as Adobe	Organizer	and the global ter	Project Inform	ation ~	Priority	500
Save as Adobe PDF			Advanced	Properties		
Print			E View advar	nced and custom of this project.		
Share			Project St			
			your project	tistics related to ct.		
Export						
More			Last Modified	Yesterday		
mone			Project Calendar	Standard		
			Priority	500		

Open_House	mpp P	roperties			?	×
General Sun	mary	Statistics	Contents	Custom		
<u>D</u> tle:	Open	House Eve	nt Planning			
Subject:	Open	House Eve	n			
Author:	Asma	rizan				
Manager:	Zaree	ma				
Company:						
Category:						
Keywords:	Open	House				
Comments:						
Hyperlink base:						51
Template:						
Save pre	view pi	cture				
				OK	Ca	ncel

Click Info, go to Project Information and click, Choose Advanced Properties, Properties popup appear, click Summary Tab and give the title for your project. The title will appear on Summary Task (ID: 0)

3)

#### **Currency Formatting**

Default currency is USD, you need to change it based on country used, as Malaysia we change to MYR

Project Options		?	$\times$
General Display	Change how Project content is displayed on the screen.		
	Calendar Calendar Type: Gregorian Calendar ▼ Calendar Type: Gregorian Calendar ▼ Currency: gotions for this project: Project ▼ Symbol: S Project ▼ Symbol: S Project ▼ Bacemant Guigts: 2 ○ Bhow indicators and options buttons for: Show indicators and options buttons for: Calendar Type: S S Show these elements: Show these elements: Calendar Type: S Show the		
	OK	Car	ncel

Click on **Option**, go to **Display** on Project Option and change the **Currency Formatting** 

roject Options		?	×
General	Change how Project content is displayed on the ten.		
Display	C change non ridjeet content is applying on an		
Schedule	Calendar		
Proofing	Calendar Type: Gregorian Calendar 🔻		
Save			
Language	Currency options for this project:		
Advanced	Symbol: RM Decimal digits: 2 0		
Customize Ribbon	Placement: RM1		
Quick Access Toolbar	Show indicators and options buttons for:		
Add-ins	Resource assignments Edits to work, units, or duration		
Trust Center	Edits to start and finish dates Selections in the Name columns		
	Show these elements:		
	Entry bar		
	Online status next to name		
	OF	Ca	ncel

#### **Options Schedule Setting**



The Project Schedule Setting Options.

- 1. Run Microsoft Project open a **blank project**.
- Click on File tab 
   select the Options menu item...
- 3. The project options dialog appears as figure in above
- 4. Select the **Schedule** item.
- Choose the All-New Projects option from the picklist after finding the scheduling options for this project area.
- 6. On New tasks created **—** Auto Scheduled.
  - i. Set Auto scheduled tasks scheduled on Project Start Date.
  - ii. Duration is entered in  **Days**.

  - iv. Default task type **—** Fixed Duration.
  - v. New tasks are effort-driven uncheck.
  - vi. Auto link inserted or moved tasks uncheck.
  - vii. Keep task on the nearest working day when changing to Automatically Scheduled mode **uncheck**.

ix. Click OK button.

#### **Advanced Setting**

voject Options			? ×
General	Edit		
Display	Allow cell drag and drop	Ask to update automatic links	
Schedule	Move selection after enter	Edit directly in cell	
Proofing	Display		
Save	Show this number of Recent Projects	50 0 1	
Language	Quickly access this number of Recent Pr		
Advanced	Show this number of unpinned Recent Fold		
Customize Ribbon	Show status bar	scroll bars	
Quick Access Toolbar		QLE links indicators	
Add-ins		uage or renamed Organizer items between projects 🕖	
Trust Center	Automatically add new views, tables, filt	ters, and groups to the global (1)	
motomer	Display options for this project:	ecti v	
	Minutes min	Wgets wk	
	Hours hr ·	Wgeks wk Mogths mon	
	Days: day *	Years	choose
	Add space before label		New Projects" from
	Show project summary task	the	drop-down menu
	Underline hyperlinks		
	Hyperlink golor:	Eollowed hyperlink color:	
	Cross project linking options for this project	t: Di Project1 -	
	Show external successors	Show 'Links Between Projects' dialog box on op	

The show project summary task dialog box

A common mistake people make in Microsoft Project is to create a task with the project name at the very top of their project plan.

Microsoft Project will do this for you automatically by displaying the project summary task.

Since the project summary task is not a default option, you need to enable it. Follow these steps to display the project summary task at the top of your project:

- i. Go to File tab 🔶 Options menu item.
- ii. The project options dialog appears as shown above
- iii. Click the **Advanced** item.
- iv. Locate the section titled "Display choices for this project" and choose "All New Projects" from the drop-down menu.
- v. Tick checkbox of the Show project summary task.
- vi. Click **OK** button

## Practice 1

You want to establish a new company and need to develop a business plan. Before you begin working on your MS project, make sure you have the following configuration and options:

- 1. A new task on the status bar show: Auto scheduled
- 2. Currency in Ringgit Malaysia
- 3. Start working day on Monday
- 4. Auto Project Summary task Appear
- 5. Setting an Author and Manager of the project

# CHAPTER 2 SCHEDULING TECHNIQUES

#### **Scheduling Techniques Overview**

A schedule is made up of all the activities involved in planning, implementing, and completing a project within the time frame specified. A project schedule assists in prioritizing and organizing the work required to complete a project. Furthermore, it aids in the selection of the best candidate for the position as well as the efficient distribution of available resources.

A schedule is a list of all the tasks that must be completed within the time frame specified during the project s planning and execution. A project timetable aids in task prioritization and project completion. Furthermore, it aids in making the best hiring decisions and making the best use of available resources.

#### **Task Relationships**

This chapter describes how to control task scheduling with constraints, view task relationships with Task Path, changing task link relationships, delay a preceding task, adjust the working hours for specific tasks, use **Task Kinds** to control task scheduling, and use **Task Inspector** to view task schedule specifics.



All tasks in this Gantt chart view, regardless of their ties to predecessor and successor jobs, have the same bar and link colours.

Enable Task Path Predecessor Formatting to view the preceding tasks in a task sequence.

	Task Mode =	Task Name v	Duration +	Start .	Finish +	Predecessors	- Re - No	12	17	22	May 2 27 2	7	12	17	22   1	27 3	1 6	11	16	21	26	1 1	6   11	16	21	
0	•	* Open House Event Planning	72.63 days	Tue 19/4/22	Thu 28/7/22				Г																	
	-5	+ Planning	70 days	Tue 19/4/22	Mon 25/7/22				-	_		_	_	_	_	-	_	_	_	_	_	_	_	_	-	1
	-	Start	0 days	Tue 15/4/22	Tue 19/4/22				197	9/4																
3	-	Choose a Date	1 day	Tue 15/4/22	Tue 19/4/22	2																				
4	-	Choose a Location	1 day	Tue 15/4/22	Tue 19/4/22	355			••																	
5	-	Choose a Theme	1 day	Tue 15/4/22	Tue 19/4/22	355			-																	
6	-	List of Quests	50 days	wed 20/4/22	Tue 28/6/22	3.4.5			- 14							-				-	-					
7	-	Exit Invitation Card	2 days	Wed 29/6/22	Thu 30/6/22	6															1					
8	 -	RSVP	0 days	Mon 11/7/22	Mon 11/7/22	7FS+7 days																	- 41	11/7		
9	-5	Select Menu	3 days	Tue 12/7/22	Thu \$4/7/22	8																				
10	-5	Food Testing	7 days	Fri 15/7/22	Mon 25/7/22	9																		t		έ.
	-	Finish Manager	O days	Anna and Indon	Adda of Parton																					21

Task Path formatting highlights the Gantt bars of task 7 s predecessor tasks in gold.

There may be a large list of tasks that came before it, but which of them is in charge of scheduling the current task? Task Path can be used to visually discern these driving ancestors.

	θ	Task Mode *	Task Name +	Duration +	Start .	Finish	Predecessors	- R.	12	17	22	27	y 2022 2 7	12	17	22		1 (		16	21	26	July 21	6	11	16   2	1 2
0		•	<ul> <li>Open House Event</li> <li>Planning</li> </ul>	72.63 days	Tue 19/4/22	Thu 28/7/22				Г																	
		-12	+ Planning	70 days	Tue 19/4/22	Mon 25/7/22				-	_			_	_	_	-	_	_	_	_	_	_	_	_	_	
			Start	0 days	Tue 15/4/22	Tue 19/4/22				11	19/4																
1		813 - E	Choose a Date	1 day	Tue 15/4/22	Tue 19/4/22	2			- <b>A</b>																	
4		•	Choose a Location	1 day	Tue 15/4/22	Tue 19/4/22	355			٠																	
5		•	Choose a Theme	1 day	Tue 15/4/22	Tue 19/4/22	355			4																	
		et	List of Guests	50 days	wed 20/4/22	Tue 28/6/22	3.4.5			1	-						-										
1		-	Exit Invitation Card	2 days	Wed 29/6/22	Thu 30/6/22	6																				
	_	#5	RSVP	0 days	Mon 11/7/22	Mon 11/7/22	7FS+7 days	_																-	11/7		
		-	Select Menu	3 days	Tue 12/7/22	Thu 14/7/22																					

Task Path format gives the Gantt bars of task 7 s preceding driving tasks a dark orange glow.

#### Using the Task Path style, format a task s predecessor or successor tasks.

 In a Gantt chart → task name column.
 On the Format tab → Bar Styles group → Task Path button → Select the choices you need.

#### **Remove Task Path formatting**

 Select Format tab →Bar Styles group → Task Path button → click Remove Highlighting.

#### Modify the relationships of task link

There are **four (4)** different kinds of task dependencies or relationships:

• Finish-to-start (FS)

The predecessor task s completion date determines when the successor work will begin.

#### Start-to-start (SS)

The start date of the successor task is determined by the start date of the predecessor task.

#### • Finish-to-finish (FF)

The successor task s completion date is set by the conclusion of the predecessor task.

#### • Start-to-Finish (SF)

The predecessor task s start date affects the successor task s completion date.

Activities in Project are automatically given a finish-to-start relationship when they are linked using the Link Tasks button on the Task tab in the Schedule group. This is acceptable for a lot of activities, but as you polish your plan, you will undoubtedly need to change certain task linkages. The jobs that require relationships other than finish-to-start relationships include some of the following. As soon as you begin working on an illustration assignment for a book, you can begin setting pages (**a start-to-start (SS) relationship**). The total time required to complete both tasks is decreased because the two tasks are performed simultaneously.

	-	Task										122					May 2				
	0	Mode *	Task Name 🛛 👻	Duration	w	Start	Ŧ	Finish	w	Predecessors	÷	7	12	17	22	27	2	7	12	17	22
3		-	Choose a Date	1 day		Tue 19/4/22		Tue 19/4/22		2				cħ.							
4		-	Choose a Location	1 day		Tue 19/4/22		Tue 19/4/22		355				-							
5		-	Choose a Theme	1 day		Tue 19/4/22		Tue 19/4/22		355				48							

In a a start-to-start relationship (SS), the predecessor task s start date sets the start date of the successor task.

							The			ne succeeding work is delayed by time by 7 days and 2 hours.
		0	Task Mode •	Task Name 👻	Duration .	Start -	Finish	- F .e	essors 👻	Nully 2022         August •           16         21         26         1         6         11         16         21         26         31
	7		-	Exit Invitation Card	2 days	Wed 29/6/22	Thu 30/6/22	6		
	8		-s	RSVP	0 days	Mon 11/7/22	Mon 11/7/22	CTES+7	days	\$ 11/7
	9		-s	Select Menu	3 days	Tue 12/7/22	Thu 14/7/22	8		L
LRT .	10		-s	Food Testing	7 days	Fri 15/7/22	Mon 25/7/22	9		
CHAR	11		-s	Finish Planning	0 days	Mon 25/7/22	Mon 25/7/22	10		\$ 25/7
Ê.	12		-s	Implementation	2.63 days	Mon 25/7/22	Thu 28/7/22			
UINND	13		-1.	Start	0 days	Mon 25/7/22	Mon 25/7/22	11		\$ 25/7
Ŭ.	14		-	Setup the Tent	1 day	Tue 26/7/22	Tue 26/7/22	13		
	15		-	Prepare the meal	2 hrs	Wed 27/7/22	Wed 27/7/22	14		i i i i i i i i i i i i i i i i i i i
	16		-	Quest Arrive	4 hrs	Wed 27/7/22	Wed 27/7/22	(15FS+	thrs >	

Add lag time to the relationship to create a pause between the predecessor s end and the start of the successor.

When two tasks are linked from finish-to-start:

- The successor task starts before the predecessor task is finished because of lead time.
- Due to lag time, the successor work begins after the predecessor task has been completed.

		West										July					August
	0	Task Mode *	Task Name 👻	Duration .	Start -	Finish .	Predecessors	*	16	21	26		11	16	21	26	
10		-	Food Testing	7 days	Fri 15/7/22	Mon 25/7/22	9							· · · ·		h	
11		-	Finish Planning	0 days	Mon 25/7/22	Mon 25/7/22	10									25/7	
12		-	Implementation	2.63 days	Mon 25/7/22	Thu 28/7/22										<u>н</u> .	
13		-	Start	0 days	Mon 25/7/22	Mon 25/7/22	11									25/7	
14		-	Setup the Tent	1 day	Tue 26/7/22	Tue 26/7/22	13									<b>h</b> -	
15		-	Prepare the	2 hrs	Wed 27/7/22	Wed 27/7/22	14									6	

The default task relationship for a project is finish-to-start (FS)

 For example, it is feasible to begin preparing book editing before the manuscript is ready. However, it cannot be done until the manuscript is completed. You want both chores completed simultaneously time.( a finishto-finish relationship).

		~	Task										25 A							1 Au				
		0	Mode *	Task Name 👻	Duratio	n •	Start	÷	Finish	٠	Predecessors	٠	м	Т	W	Т	F	s	s	м	Т	W	Т	
	18		-	Returning Guests	1 hr		Thu 28/7/22		Thu 28/7/22		16,17													
1	19		- 1 C	Neat	4 hrs		Thu 28/7/22		Thu 28/7/22		18					ъ								
4	20			Disperse	0 days		Thu 28/7/22		Thu 28/7/22		19FF						28/7							

The finish date of the predecessor task dictates the finish date of the successor work in a finish-to-finish relationship (FF).

To change the sort of task relationship that exists between tasks

1. Choose a successor task that you want to modify..

2. Click **Information** button in the **Task** tab. View the **Task Information** dialogue box, which displays details of the selected task.

3. Select Predecessors from tab menu.

4. On Predecessors tab, in the Type column, choose the form of relationship to establish between the tasks., then click **OK**.

5. Click **OK**.

To add time between related tasks as a lead or lag

1. Select the successor task which you want to add lead or lag time.

2. Select the **Information** button in the **Properties** group of the Task tab.

3. Select the **Predecessors** tab in the **Task Information** dialogue box, and then choose one of the following options:

 For a predecessor task, specify the exact lead value in the Lag field. Negative lag values represent lead values. Lead can be stated in terms of working days (for example, -2d) or as a percentage of the prior tasks duration (for example, -25 percent).

 Put the appropriate lag value in the Lag area for a preceding task. For lag values, positive numbers are used. Lag can be stated as a number of working days (for example, 3d) or as a percentage of the prior task s time (for example, 50 percent).

Task	Informat	ion			×
Gene	ral Pre	decessors Resources Advanced Notes Custom F	ields		
<u>N</u> am <u>P</u> red	e: Cho ecessors	ose a Date	Duration: 1 day	÷ Est	limated
	ID	Task Name	Туре	Lag	^
	2	Start	Finish-to-Start (FS)		
<					×
	<u>H</u> elp		ОК	Ca	ncel

#### **Task Scheduling Constraints**

Every task you enter into Project comes with a constraint. A limitation governs how far an automatically scheduled task can be postponed. The constraint details of automatically scheduled jobs can be managed.

However, you cannot change the constraint type or specify a constraint date when working with a manually scheduled task .

#### Constraints are divided into three categories:

- Flexible constraint
- Semi-flexible constraints

With this restriction, a task has a start or end date boundary. Within that limit, however, Project has the scheduling flexibility to change a task s start and finish dates.

#### • Inflexible constraint

A constraint that requires a task to start or end on a specific date. **MSO** (Must Start On) and **MFO** (Must Finish On) are both rigid limitations.

Click the constraint indicator in the Indicators column to reveal the constraint type and date.

8			RSVP		0 days	Mon 7/11/22	Mon 7/11/22	7FS+7 days	
9			Select Menu		3 days	Tue 7/12/22	Thu 7/14/22	8	
2		4 -	Food Testine	2	7 days	Fri 7/15/22	Mon 7/25/22	9	
11			a 'Must Finish On' Mon 7/25/22,	ng	0 days	Mon 7/25/22	Mon 7/25/22	10	÷ 7/25
12	¢		'My Calendar' is	n	2.63 days	Mon 7/25/22	Thu 7/28/22		
13		assigned to th			0 days	Mon 7/25/22	Mon 7/25/22	11	\$ 7/25
14		-	Setup the Te	nt	1 day	Tue 7/26/22	Tue 7/26/22	13	<b>1</b>
15			2 hrs	Wed 7/27/22	Wed 7/27/22	14	-		
16	-	-	Owert Arrive		4 hrs	Wed 7/27/22	Wod 7/27/22	155543 hzz	+ +

#### Using a task constraint

- 1. Select the task to which you want to apply the constraint.
- 2. Click the Information button in the Task tab s Properties group.
- 3. Select the **Advanced** tab in the **Task Information** dialogue box.

4. In the Constraint Type box, select the constraint type you want.

**TIPS** The Task Information

dialogue box can be

opened by double-

clicking a task name.

5. Enter or choose the preferred date in the Constraint Date box, then click OK.

All constraint types, with the exception of As Soon As Possible and As Late As Possible, demand a constraint date.

lask Info	rmation		×
General	Predecesso	s Resources Advanced Notes Custom Fields	
Name:	Food Testin	Duration: 7 days 🕆 🔤 Estima	ated
Constra	in task		-
Deadji	ne:	NA V	
Constr	aint ty <u>p</u> e:	Must Finish On  V Constraint date: Mon 7/25/22	~
Task ty	pe:	Fixed Units v Effgrt driven	
Calend	lan	My Calendar Scheduling ignores resource calendars	
WBS o	ode:	1.9	
Farmer	i yalue meth	d: % Complete	
Hel	p	OK Cance	đ
	Constra	nt type: Must Finish On 🗸 Constraint date: Mon 7/25/22	~
	Task typ	As Late As Possible As Soon As Possible Finish No Earlier Than	
	Calenda		alendars
	WBS co	e: Must Finish On Must Start On	
	Earned	alue methoc Start No Earlier Than Start No Later Than	
	Mark t	isk as milestone	
	Help	OK	Cancel

#### To remove a task constraint

- 1. Choose a task to which a constraint has been applied.
- 2. In the **Properties** group of the **Task** tab, select the **Information** button.
- 3. Select the Advanced tab in the Task Information dialogue box.
- 4. Select **As Soon As Possible** or **As Late As Possible** in the **Constraint Type** box (if scheduling from the project finish date).

#### SET UP A CALENDAR

#### Adjust working time for individual tasks

Here are some scenarios in which a task calendar may be useful:

- You re working on a task that needs to run overnight, and you re using the Standard base calendar as your project calendar. Your typical working hours are 8:00 a.m. to 5:00 p.m.
- You have a task that needs to be completed on a certain weekday.
- You have a task that needs to be completed over the weekend.

#### Create a **new base calendar**.

- 1. On Project tab, Click the **Change Working Time** button in the **Properties** group to access the Change Working Time dialogue box.
- 2. Click **Create New Calendar** in the Change Working Time dialogue box to launch the **Create New Base Calendar** dialogue box.

Create	New Base Caler	ıdar	×
N <u>a</u> me:	Calendar 1		
$\odot$	reate <u>n</u> ew base	calendar	
0	dake a copy of	Standard ~	calendar
		ОК	Cancel
	now haco a	alondar a namo i	hat makes

Give a new base calendar a name that makes sense to everyone who will be using it.

3. Type the name of the new base calendar in the Name Box, and then select one of the following :

- Click Create New Base Calendar to make a new calendar with working hours of 8:00 a.m.-5:00 p.m. Monday-Friday.
- To make a new calendar that is based on an existing base calendar, select Make a copy of from the drop-down menu and choose the base calendar you want from the list (24 hours, Night Shift, Standard).
- 4. Select OK.

5. Enter the particular working time exceptions or overall modifications you desire for this calendar on the Exceptions and Work Weeks tabs of the Change Working Time dialogue box.

6. To close , click OK.

You can change Calendar 1 to New Name

ndar	×
calendar	
Standard	galendar
24 Hours	
	Cancel
	calendar Standard

To use a base calendar to complete a task

- 1. Select the task to which the base calendar will be applied.
- 2.Click the **Information** button in the **Task** tab s to launch the **Task Information** dialogue box.
- 3. Select the **Advanced** option from the drop-down menu.
- 4. Select the **base calendar** from the list of available in the Calendar box.

Task Information	×
General Predecesso	rs Resources Advanced Notes Custom Fields
Name: Disperse	Duration: 0 days
Constrain task	
DeadJine:	NA
Constraint type:	As Soon As Possible         V           Constraint date:         NA         V
Task type:	Fixed Units
Calendari	My Calendar Scheduling ignores resource calendars
WBS code:	2.8
Earned galue metho	od: % Complete ~
Mark task as miles	tone
Help	OK Cancel

Apply a base calendar to a task using Calendar field in the Task Information dialogue box.

#### 5. Close the dialogue box by clicking **OK**.

The base calendar is applied to the task. In the Indicators column, a calendar icon appears, informing the task has a task calendar assigned to it. 6. Point at the calendar icon to see the calendar s details. The calendar details are displayed in a ScreenTip.

20 C The calendar 'My Calendar' is asigned to the task.	20 Ch. Discoerce 0 days Thu 28/7/22 Ch. The calendar 'Hy Calendar' is	20 The calendar 'My Calendar' is assigned to the task.			θ	Task Mode 🕶	Task Name	¥	Duration	¥	
The calendar <sup>My</sup> Calendar <sup>*</sup> is signed to the task.	The calendar ' is assigned to the task.	E The calendar 'Is assigned to the task.		19	_		Neat		4 hrs		Thu 28/7/22
	The calendar show s on Screen Tip displayed	The calendar show s on Screen Tip displayed		20	ĿФ,	The calend	lar 'My Calendar ' is	]	0 days		Thu 28/7/22
	The calendar show's on screen Tip displayed	The calendar show's on Screen Tip displayed	The enjoyed are being and Garren Ti	un alia		7					

#### **CHANGE WORKING TIME**

A project that you create schedules work using a base calendar that is set up by default. This may be a standard Monday through Friday, 8 AM to 5 PM workweek, or it could be something else that better fits the requirements of your organization.

If the working hours for your project are different from the standard hours, you can:

• Adjust the project calendar s working hours to fit your needs.

#### OR

• Change to a different base calendar (24 Hours or Night Shift, for example).

#### Change the working hours for your project.

If none of the base calendars available match the regular working schedule for your project, you can change the project s working days and hours to make sure that work is scheduled appropriately.

Is there a similar schedule being used by other projects? Create a new basic calendar for your project s schedule to save your teammates time!

#### Change Working Time × For calendar: My Calendar Create New Calendar ... Calendar 'My Calendar' is a base Working times for May 31, 2022: Legendt Click on a day to see its working times: May 2022 • 8:00 AM to 12:00 PM • 1:00 PM to 5:00 PM Working M T W Th F S S 1 Nonworking 3 4 5 6 8 31 Edited working hours 10 11 12 9 13 14 15 Based on: Click on Work Weeks tab On this calendar Default work week on calendar 16 17 18 19 20 21 22 'My Calendar 31 Exception day 23 24 25 26 27 28 29 31 Nondefault work week 30 Exceptions Work Weeks Dgtails... Name Start Finish 1 [Default Click **Details** button After **finish** setting Click **Ok** button when finish. Ogtions... OK Close Help

#### Let s start make a change

#### Let s Set working time for My Calendar

### Click on Use Project default times for these days.

Select the days that should use the default working hours, which are 8:00 A.M. to 12:00 P.M. and 1:00 P.M. to 5:00 P.M., Monday through Friday, and nonworking hours on weekends, and click **OK**.

Details for '[Default	).			×
Set working time fo	r this work	week		
S <u>e</u> lect day(s): Monday Tuesday Wednesday	Oset	days to nor	nworking tir	or these days. ne. working times:
Thursday Friday Saturday Sunday	1	o.corran	To 1:00 PM 5:00 PM	
Help			OK	Cancel

Details for '[Default	t].			×
Set working time fo	or this work	week		
S <u>e</u> lect day(s): Monday Tuesday Wednesday Thursday	Oset	days to <u>n</u> or day(s) to th	ault times for t working time. ese <u>s</u> pecific wo	
Friday Saturday	-	From 8:00 AM	To 12:00 PM	
Sunday	2	1:00 PM	5:00 PM	
	-			

Click **Set day(s) to these specific working times** for standard time working and click **OK**.

To set the working times for the selected days, type the times that you want work to start in the **From** column and the times you want work to end in the **To** column.

Click **Set days to nonworking time** by choose the days which no work can be scheduled. The change that you make will be reflected in all the months in the calendar.

Click **OK** 

Sglect day(s): Monday Tuesday Wednesday	Use Project default times for these days.  Set days to nonworking time.  Set day(s) to these specific working times:					
Thursday Friday Saturday Sunday	From To					
<u>H</u> elp	OK Cancel					

×

Then,

Right-click the **task**, choose **Information**, select the **Advanced** tab, and then select the calendar from the **Calendar** list.

Details for '[Default]'

#### **Create a recurring task**

In calendar program like Microsoft Outlook, recurring tasks in Project are similar to recurring appointments. You can specify its repeating pattern (for example, once daily or once weekly) as well as the timeframe or number of repetition.

#### To create a recurring task

Click on Task tab  $\rightarrow$  go to **Insert** group  $\rightarrow$  Click on **Task**  $\rightarrow$  Click on **Recurring Task** 

File	Task	Resource	Report	Project	View	Help	Format	Q Tell r	me what yo	ou want to d	0	<u> </u>
Gantt Chart *	Paste	K Calibri B I	<u>u</u>   <u>a</u> -	<u>A</u> · <sup>1</sup>	.,7 ₩ 0	¤ ở ⊕	Manually Schedule	Auto Schedule	2.	sk	Information	Editing
View		Task Mode + Tas	Font k Name		Sched	Start	+ Fit		Pred		-	T F
7			List of Card		0 days days	Wed 4/20 Wed 6/29		e 6/28/22 u 6/30/22	3,4,5 6	-	utlook Tasks	
		Task Nan Recurrer Dail Wer Mor Year	ekly nt <u>h</u> ly [] \$ ity [] 1	g ur every 1 Sun <u>d</u> ay [	₩onday Eriday	eek(s) on: Tuesday Saturda	Wge	ation: 1d dnesday	•	×		
		<u>S</u> tart: Calenda Cale <u>n</u> d	f recurrence Tue 4/19/22 r for schedul lar: My Cal	ing this task		End after     End by:	Thu 7	alendars		~		
		Helj	2				L	OK	Cano	ei		

Recurring Task Information dialogue box

- 1. Type the name of the recurring task in the **Task Name** area.
- 2. Type the duration of each recurring task instance in the Duration field.
- 3. Specify how frequently the task should recur under Recurrence pattern.
- 4. Enter a start date in the **Range of Recurrence** box. You have the option of specifying a specified number of occurrences or specific end date for the end date.
- 5. To use a specific base calendar for the task, select it under Calendar for scheduling this task. Select the **Scheduling ignores resource calendars** check box if you want the specified calendar to override resource calendars.
- 6. Select **OK.**

#### Allocating resources to a recurring task

- 1. Pick the summary recurring task and then expand it.
- 2. In the **Resource** tab, click **Assign Resources** button.
- 3. In the Assign Resources dialogue box, choose the resources you want to attach with the recurring activity. To choose many resources, keep holding down the Ctrl key while selecting other names.
- 4. Select **OK**.

#### Assigning resources to a particular example of a recurring task

- 1. To see the instances of the summary recurring task, expand it.
- 2. Choose the precise occurrence to which a resource should be assigned.
- 3. On the Resource tab. click the Assign Resources button
- 4. In the Assign Resources dialogue box, choose the resources you want to attach with the recurring activity. To choose many resources, keep holding down the Ctrl key while selecting other names.
- 5. Select **OK**.



Recurring setting for meeting during a project planning

#### Examine resource allocations over time

A resource s maximum units and resource calendar determine its capacity to operate in a given time period. Allocation is the link between a resource s capacity and its task allocations. A work resource could be any of the following at any one time:

- **Underallocated:** The resource s assignments do not use up all of the resource s working capacity.
  - **Example:** In a 40-hour workweek, a full-time resource with just 25 hours of work assigned is underutilized.
- **Fully allocated**: The resource s assignments have used up all of the resource s available capacity.
  - **Example:** A full-time resource with 40 hours of work assigned in a 40-hour workweek
- **Overallocated:** The number of assignments assigned to the resource exceeds the resource s maximum capacity to work.
  - **Example:** A full-time resource who is allotted 65 hours of work during a 40-hour workweek is overallocated.

## Practice 2

Once the configuration and settings are complete, create the task and specify the start and end dates for each task to establish a new company for the planning project. se the following steps to create a project plan.



Create tasks for each cycle to detail the planning. Assign resources for each task such as based on organizational setting or equipment needed. From the task set the :

- 1. Task Relationship
- 2. Set Resources
- 3. Set the constraints
- 4. Create your own Calendar
- 5. Change working time
- 6. Set a recurring task for meeting



# CHAPTER 3 VIEW AND REPORT

#### View and Report Overview

The most crucial duty of a project manager is to communicate the project status to key stakeholders. A project with poor communication is almost certain to fail, even while good communication does not ensure project success.

The following questions must be addressed in order to successfully communicate project status: Whom and why should be updated on the project s progress? What kind of format or degree of detail are these people looking for?

The best time to address these questions is during the project s early planning stages. Following the start of the project, your major communication role will be to update the status of the project. This can take a variety of forms:

- Reports on the status of the project in terms of cost, scope, and schedule.
- Progress reports that detail the project team s individual accomplishments.
- Forecasts that indicate how well a project will perform in the future



#### **Project Status: View and Report**

The project manager s attention switches from planning to obtaining, analyzing, and disseminating performance information once work has begun and the baseline for a plan has been established.

There are **3 (three)** main things to ask when analyzing project performance details in most plans:

- Is the plan on schedule to conclude when we expect it to at the current rate of completion?
- What about the plan s length, scope, or cost changed?
- How much has the plan s development cost thus far, and how much more is anticipated going forward?

By comparing the results to the baseline, the project manager and other stakeholders may assess the situation and decide whether corrective action is required.

When actual or scheduled performance deviates from the initial plan, a variance arises. Variance is typically quantified in terms of time (days behind schedule) or expense (dollars above budget). Following the completion of initial planning, many project managers devote the majority of their time to finding, researching, and responding to variance. You must first detect variance before you can respond to it.

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ec.	-	Tesk	View Reports		Expert				Ohr 2, 2022	Otr 3, 2022
	θ	Mode *		Duration +			Predecessors +		Mar Apr Mi	ey Jun Jul Aug Sep
0			Open House Event Planning		Tue 19/4/22	Wed 27/7/22		RM6,450.00		
÷		-	<ul> <li>Planning</li> <li>Start</li> </ul>	70 days	Tue 19/4/22	Mon 25/7/22		RM458.00 RM0.00	0 19/4	
÷	Č.	2	Choose a Date	0 days 1 day	Tue 19/4/22 Tue 19/4/22	Tue 19/4/22 Tue 19/4/22	2	RM0.00		
÷	Č.	-	Choose a Location	1 day	Tue 15/4/22 Tue 15/4/22	Tue 19/4/22	355	RM150.00		
÷	5	-	Choose a Theme	1 day	Tue 15/4/22 Tue 15/4/22	Tue 19/4/22	355	8540.00		
÷	•	-	List of Guests	50 days	Wed 20/4/22	Tue 28/6/22	14.5	RM100.00	7	
÷		-	Exit Invitation Card	2 days	Wed 29/6/22	Thu 30/6/22	6	RM0.00		
÷		-	RSVP	0 days	Mon 11/7/22	Mon 11/7/22	715+7 davi	FM0.00		¥ 11/7
9		-	Select Menu	3 days	Tue 12/7/22	Thu 14/7/22	8	RM0.00		T.
10	298	-	Food Testing	7 days	Fri 15/7/22	Mon 25/7/22	9	RM200.00		<b>1</b>
11		-	Finish Planning	0 days	Mon 25/7/22	Mon 25/7/22	30	RM0.00		4 25/7
12		-	+ implementation	1.5 days	Mon 25/7/22	Wed 27/7/22		RM6,000.00		
13	80	-	Start	0 days	Mon 25/7/22	Mon 25/7/22	11	RM0.00		a <sup>*</sup> 25/7
14	12	-	Setup the Tent	1 day	Tue 26/7/22	Tue 26/7/22	13	RM1,000.00		Š.
15	28		Prepare the meal	2 hrs	Tue 26/7/22	Tue 26/7/22	14	RM5,000.00		1
16	8	- C	Quest Arrive	4 hrs	Tue 26/7/22	Wed 27/7/22	15F5+2 hrs	RM0.00		
	-					T	T	RM0.00 RM0.00 RM0.00		4
	l ir	25				175322 6	100000000	EM0.00		a 27/7

Display the project summary task on the Format tab in the Show/Hide group to see the overall project-wide numbers. In tabular views like the Gantt Chart and using views, you may also use a number of useful tables, like the Cost and Variance tables. The taskand resource-specific chapters that follow this chapter go into further depth about these tables.

Complete planning task for Open House Event

#### **View Project Statistics**



Click on **Project** tab  $\rightarrow$  **Project Information** in Properties group  $\rightarrow$  **Statistics** button

e 19/4/22 ed 27/7/22	* 	Current date:	Fri 3/6/22	~
	~			
		Status date:	NA	~
ject Start Date	~	Calendar:	Standard	~
		Priority:	500	
Name	1	Value		<u> </u>
				~
	egin as soon as possib elds Name	~	elds	elds

Get a quick **"status-at-a-glance**" overview of the situation by using the **Project Statistics** dialogue box to start.

	Start		Finish				
Current	Tue	e 19/4/22		Wed 27/7/22			
Baseline	Tue	e 19/4/22	Wed 27/7/2				
Actual	Tue	e 19/4/22	N				
Variance		0d	00				
	Duration	Work		Cost			
Current	71.5d		0h	RM6,450.00			
Baseline	71.5d		Oh	RM6,450.00			
Actual	16.33d		Oh	RM175.00			
Remaining	55.17d		Oh	RM6,275.00			

#### View Report on Dashboard

⊟ <del>ర</del> ా ి∽ా			Open_House.mpp - Project Professional						
File	Task	Resource	Report	Project	View	Help	Acrob	at	Foxit PDF
+ I + I +	*				1			1	
Compare Projects	New Report	Dashboards	Resources	Costs ~	In Progress	Getting Started ~	Custom	Recen	t Visual Reports
Project				View Re	ports				Export

#### Click on **Report** tab -> Click on **New Report** in View Reports group



You can choose the elements you want to include while constructing a **new report.** 

#### Dashboard report that includes"

- "Project Overview"
- "Cost Overview"
- "Burndown reports"

Click **Report** tab  $\longrightarrow$  on **View Reports** group  $\longrightarrow$  **Dashboards**  $\longrightarrow$  click on the Dashboard report you want.






Use the Project **"dashboard"** reports for **reporting and analysis** of wide schedule and expense changes. We ll start by examining the Project Overview report.

PROJECT	OVERVIEW	N COMPLETE Status for all top-leve outline level in the Fi	I tasks. To see the sta eld List.	tus for subtasks, d	ick on the char	t and update the	
TUE 19/4/22 - WE	D 27/7/22	100%					
IN COMPLETE		80%					
000/		60%					
23%		50%					
		40%					
		30%	24%				
MILESTONES DUE		20%					
Milestones that are coming soon.		0%			0%		
Name	Finish		Planning	limp	ementation		
RSVP	Mon 11/7/22						
Finish Planning	Mon 25/7/22	LATE TASKS Tasks that are past du	e.				
Start	Mon 25/7/22	Name	Start	Finish	Duration	% Complete	Resource
Disperse	Wed 27/7/22						

The "Project Overview" report clearly displays the plan s overall completion percentage of duration (in this case, 23%), a completion percentage of each summary task, and other information.

The overall progress of the summary tasks and milestones is the main emphasis of this report. Sharing this report with project stakeholders who need a high-level overview is a great idea.

When producing cost-focused reports, start with the "**Cost Overview**" report. This report includes the total scheduled cost as well as the plan s current cost status.



The Plan s total and remaining expenses, as well as previous and anticipated cost trends, are displayed in the Cost Overview report.

The "**Burndown"** report is also another cost report that is essential for total cost reporting.

16
12
10
*
6
4
2
0 18/4/22 2/5/22 16/5/22 30/5/22 13/6/22 27/6/22 11/7/22 25/7
Baseline Remaining Tasks Remaining Tasks
SK BURNDOWN

The Burndown report assists you in determining when the project will be finished at the current rate of work.

This report outlines the amount of work completed, the amount still to be done, and the anticipated pace of completion.



### View Other Report



**Display the Overallocated Resources** 

When a resource is scheduled for more work than they can reasonably complete given their regular work capability, this condition is known as overallocation.

		den Er lor				
ource	Report	Project	View	Help	Acrob	at Foxi
		-			<u>.</u>	1
ashboard	s Resources	Costs	In Progress		Custom	Recent
~	*	~	v	Started ~	× .	~
		Ca	ish Flow			
+ Tasl	k Name		ost Overrun		on 🗸	Start
4 0	pen Hous	Ea	rned Value	Report	lays	Tue 19/4
	Planning	Re	source Co	t Overview	5	Tue 19/4
	Start	Ta	sk Cost Ov	erview		Tue 19/4
	Choose	Ш М	ore Reports	han		Tue 19/4
			-		-	





To see the cost of the plan and its accumulated cost values over time, display the Cash Flow report.



The Cost Distribution pie chart in the "Task Cost Overview" report totals task costs according to their level of completion.

### Display the Cost table in the Task Sheet view

1. On the View tab — click "Task Views" group \_ bot to Other Views to display the Task Sheet view —> click **Task Sheet** . H 2. On the **View** tab **→ Data** group **→ Tables → Cost**. Calendar -Task Gantt Task Chart = Usage 🔁 Other Views \* Display the Cash Flow report / Task Cost Overview Task Form Task Sheet Timeline TIMEL Save Vjew. More Views 2. Select the report you want

0	Open_Ho	ouse.mpp -	Project Pr	ofession	al	
Report	Project	t View	Help	Acro	bat	Foxit PDF
	-			<b>N</b>	1	
ards Resources	Costs			Custom	Recent	
×	View Re	Critic		_	Ť	Reports Export
Task Name		Late	fasks		Start	t +
• Open Hous	e Ever	Miles	tone Repo	ort ys	Tue	19/4/22
<ul> <li>Planning</li> </ul>		Slippi	ng Tasks		Tue 1	19/4/22
Start		More	Reports		Tue 1	19/4/22
	Report	Report Project ards Resources Costs View Re Task Name • Open House Even • Planning	Report     Project     View       ards Resources     Costs     In Progress       View Re     Critic       Task Name     Late       Open House Ever     Miles       Planning     Slippi	Report     Project     View     Help       ards Resources     Costs     In Progress     Getting       View Re     Critical Tasks     Late Tasks       Task Name     Milestone Report     Sipping Tasks	Report     Project     View     Help     Acrol       ards Resources     Costs     In Progress     Getting     Custor       View Re     Critical Tasks     Late Tasks       Task Name     Milestone Report     Slipping Tasks	ards Resources Costs View Re View Re Critical Tasks Late Tasks Amilestone Report Planning Sipping Tasks Unit Sipping Tasks View Re Critical Tasks Late Tasks Milestone Report Sipping Tasks Tue

The "Late Tasks" report s primary focus is the current date, unless you specify a different status date.

Use the "Late Tasks" report to concentrate on tasks that were finished or will be finished later than expected.



### Display the Cost table in the Resource Sheet view

1. On the View tab click "Resource Views" group Resource Sheet" to display the Resource Sheet view.
 2. On the View tab Select Cost.

#### Sort resources by cost amounts

- 1. Present the **Cost table**.
- Click the AutoFilter T dropdown arrow next to a column heading: Cost or Variance Sort Largest to Smallest from the menu that appears.

#### Display the Cost table and cost details in the Resource Usage view

- 1.On the **View** tab  $\rightarrow$  "**Resource Views**" group  $\rightarrow$  "**Resource Usage**" to display the Resource Usage view.
- 2.0n the **View** tab  $\rightarrow$  **Data** group  $\rightarrow$  **Tables**  $\rightarrow$  **Cost**.
  - In the "Resource Usage" view, the "**Cost table"** can be seen.
- 3.On the "Resource Usage" Tools -> Format tab -> Details group -> Cost detail to add to the time-phased side of the view.
- 4. To add more time-phased details → Add Details → Detail Styles dialog box open. Then, in the Available Fields list → cost-related fields add → Show.

#### **Display the Resource Cost Overview report**







## Practice 3

Create a report for each of the progress and costing involved from the project plan in Practice 2



# CHAPTER 4 FORMAT AND PRINT

## Format and Print Overview

You can learn about some of MS Project s more complex formatting choices in this chapter. An effective format can be very helpful for delivering information to resources, clients, and other stakeholders. Some formatting options in Project are comparable to those in stylebased word processors like Microsoft Word, where applying a style once has an impact on all content in the document. In Project, styles can be used to alter a certain type of Gantt bar s appearance throughout a plan, such as a summary bar. Additional formatting options are provided in this chapter, including task-specific formatting and formatting of some of the most popular views.

This chapter explains how to format and print views using Project s more sophisticated formatting and printing tools.

## **Organize Global Template**

When you open Microsoft Project, an empty project file contains all of the typical Views, Tables, and Calendars, but no Tasks or Resources. The Global Template for Microsoft Project, which is a file with the name Global, contains all of this information.

Click **File** tab  $\rightarrow$  click **Organize Global Template**  $\rightarrow$  windows popup appear



#### Organizer popup show the calendars available in project planning

My Calendar Night Shift Standard Regame Belete Help		Organizer Views   Reports   Modules   Tables   Filters C	elendars Maps	Fields Groups	×
Colonders available in:	>	24 Hours A My Calendar Night Shift	Cancel Regame Delete	My Calendar	< ×
Calendars available in: Calendars available in:		Calendars agailable in:		Calendars available in:	
GlobaLMPT V Open_House.mpp		Global.MPT	1	Open_House.mpp	~

## Format a "Gantt chart" View

Different types of items can be formatted to alter how they appear in a Gantt chart view. You can accomplish this by using the **"Bar Styles"** dialogue box. A Gantt chart view s formatting and bar style changes only impact that view.

On Gantt Chart Tools  $\rightarrow$  Click on **Gantt Chart Styles** group and select the styles or click on small arrow on the bottom of the left side  $\rightarrow$  **Bar Styles** Dialog box were open

eport Project	Viev	Help Ar	robat Foxit PDF Gantt Chart	Format	t PDF Gantt Chart Format Tell me what you want to do						
Columns			cal Tasks — — — — — — — — — — — — — — — — — —		Gi t Chart Style	Outline N     Project S     Summary	ummar				
Bar Styles							×				
Cut Row	Paste	Row	Row								
Name		Appearance	Show For Tasks	Row	From	То	<u>^</u>				
Task			Normal, Active, Not Critical, Not M	1 T	ask Start	Task Finish					
Split			Normal Split Active Not Critical N	1 T	ask Start	Task Finish					
Milestone		*	Milestone, Active, Not Group By Su	1 T	ask Finish	Task Finish					
Summary		I	Summary, Active, Not Manually Sci	1 T	ask Start	Task Finish					
Project Summ	nary	1	Project Summary	1 T	ask Start	Task Finish					
"Group By Su	mmary	H	Group By Summary	1 T	ask Start	Task Finish					
*Rolled Up Ta	ask		Normal,Rolled Up,Not Summary,	1 T	ask Start	Task Finish					
*Rolled Up S	plit		Normal,Rolled Up,Split,Not Sumr	1 T	ask Start	Task Finish					
*Rolled Up Pr			Normal,Rolled Up,Not Summary	1 T	ask Start	CompleteThrough					
"Rolled Up N	filestone	<u> </u>	Milestone, Rolled Up, Not Summar	1 T	ask Finish	Task Finish					
*Deliverable :	Start	1	Deliverable	1 D	eliverable Start	Deliverable Start					
*Deliverable			Deliverable		eliverable Finish	Deliverable Finish					
*Deliverable I	Duration		Deliverable	1 D	eliverable Start	Deliverable Finish	¥				
<							>				
Text Bars											
Start			Middle		End						
Shape:			V Shape:		Shape						
a coperation in the						~					
Dpe:			V Pattern:	~	Туре:	~					
<u>C</u> olor:			V Cglor:	~	Color:	~					

To change the appearance of entire categories of items in the Gantt chart views as demonstrated above, use the Bar Styles dialogue box.

The formatting modifications you make to a certain bar type (critical tasks, for instance) or other elements in this dialogue box are applied to all of that bars or other items in the Gantt chart.

## Format a Timeline view

The "**timeline view**" is a convenient method to understand the plan s "big picture." In a single Timeline view, you can display one or more timeline bars, each of which can be customized separately.

Open_House	e.mpp -	Project Profe	essional		Gantt Cha	rt Tools		Asmarizan E	linti Mat Esa 🔎
Report Project	View	Help	Acrobat	Foxit PDF	Gantt Char	Format	💡 Tell me wi	hat you want to do	
Resource Usag	e ~	2↓ Sort ~	2 [No	Highlight] +	Timescale:	٩, -	I Timeline	Timeline *	<b>-</b> 8 -
Resource Sheet		🕒 Outline ~	T [No	Filter] -	Months	- 🖾	Details	~	
🗸 🔁 Other Views ~		📑 Tables ~	말! (No	Group] *					New Window
Resource Views			Data		Zoo	om	Sp	lit View	Window

Click on **Display on Timeline** to appear the Planning Task

ame: Plan	ning			Duration: 70	days 📮 🗌 Estimate
ercent comp	ete: 24%	•		Priority: 500	•
chedule Mo		ually Scheduled Scheduled		Inactive	
Dates					
Start: Tue	19/4/22		<u> Finish</u>	Mon 25/7/22	~
Display or Hide Bar Rollup	<u>I</u> imeline				

Task will be displayed on Timeline.



Right-Click on Timeline to change the formatting



## **Create a custom report**

Any combination of data that you desire can be included in **custom reports**. To communicate information that isn t available anyplace else in Project, you can really integrate tasks, resources, and other data into a single report.

Custom report to be consider for any of the following elements:

- Charts Create a report with bar, area, or other sorts of charts.
- Tables are used to present data in a row-and-column format.
- Add images to a report, such as JPEG or PNG format files.
- Insert and customize pre-made shapes like speech bubbles, circles, and arrows. Shapes are a great way to draw attention to important information in a report.
- Boxes for text Insert a Text Box anywhere on a report..

The **"Insert group"** in the "**Report Tools Design**" tab contains the buttons for adding various components to a report.

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### To add elements to a report, use the buttons in the insert group of the Report Tools Design tab.

Use these features in a Project report the same way you would in a PowerPoint presentation or an Excel spreadsheet in Microsoft Office.

Charts and tables are distinct from the rest of the report s components. Charts and tables use data from the project s open-task plan s and resource fields. As the underlying data in the plan changes, the field values on a chart or table will be immediately updated.



Create A Bar chart for Progress report

## Add Chart to a Report

- 1.On the "**Report Tools Design**" tab Insert group, Chart to open the "Insert Chart" dialog box.
- 2. On the left side of the dialog box → choose chart types you want → select the specific chart layout you want.
- 3. Click **OK**.
  - The project displays the Field List pane and adds the new chart to the report.
- 4. Drag the chart to position anywhere you want it on the report.

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The Chart Tools Design and Format tabs show up when you add or select a chart.

Drag the chart to the desired location on the report.

- The **Design tab** is where you can get creative. Using the buttons on this page, you can alter the chart s format and appearance as well as add features like data labels.
- The **Format tab** is located on the toolbar. Format chart elements such as data series using the buttons on this tab.

## Change a chart's format and style

- 1. Click on the **chart**.
- 2.0n the "**Chart Tools Format**" tab -> choose the chart elements, and other options you want.
- 3.0n the "**Chart Tools Design**" tab  $\rightarrow$  choose the layout, color, or style options you want.



## **Print a View or Report**

A printed view of a project is more than just a pretty way to display project information. It may occasionally be the best course of action. You can share views of Project that exactly present the data you want to convey.

A view, report, or calendar can be printed in Project in a manner that is quite similar to that of other Office applications:



## Make a report ready for printing

• Format the report

To ensure that the report only contains the information you want to print, create it and make any required edits.

You can change the colours and add visuals, as well as add charts, tables, and links.

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## View the Print Design

-----> Select following options : "Page Breaks", "Margins", "Orientation", or "Size".

Settings

Print Entire Project
Print the project from start to finish
Dates: 4/19/2022 to 7/27/2022

Pages: 1 to 1 t

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• Page Setup

Landscape Orientation

Letter

- 2. The report will display recommendations that adapt to your decisions.
- 3. To set other print options,

## Add a header or footer

- 1.Click the File tab  $\rightarrow$  Print  $\rightarrow$  Page setup
- 2. Click on the **Header** or **Footer** tab.
- 3.Use the Left, Center, or Right text boxes to enter your text.
- 4. To format the text or add items, use the **buttons beneath** the **text box**:

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## Prepare a report for printing

Format the report

See the print layout as you work on the report

Put a header or footer

## Choose your preferred viewpoint.

To display only the information you want to share, change the view. As an illustration:

- a. To display just top-level tasks, hide subtasks.
- b. To emphasize certain information, sort tasks or dates.
- c. Temporarily hide columns on the printout

## Practice 4

From the Project plan from Practice 3, format each as follow:

- 1. Bar Styles
- 2. Timeline view
  - a. Show each phase involved
  - b. Format the timeline
  - c. Show each subtask in the timeline
- 3. Custom report as chart, tables or images included.



# **Keyboard Shorcuts**

## General Shortcuts \*

Open an Existing project (Ctrl + 0) Create a new project (Ctrl + N) Save a project (Ctrl + S) Print a project (Ctrl + P) Close a file (Ctrl + W) Close project (Alt + F4) Help (F1) Spell check (F7) Zoom in (Ctrl + /) Zoom out (Ctrl + Shift + \*)

## 🌣 Editing

Cut (Ctrl + X) Copy (Ctrl + C) Paste (Ctrl + V) Undo (Ctrl + Z)Redo (Ctrl + Y) Find (Ctrl + F) Create a hyperlink (Ctrl + K) Add a new task (Insert) Cancel and entry (Esc) Clear/reset field (Ctrl + Delete) Fill down (Ctrl + D) Link tasks (Ctrl + F2) Unlink tasks ( Ctrl + Shift + F2 ) Set task to manually schedule (Ctrl + Shift + M) Set task to manually schedule (Ctrl + Shift + A)

## Navigation and Views

Up one Screen (Page Up) Down one Screen (Page Down) Show filtered tasks or resources (F3) Display Field Settings (Alt + F3) Show task or resource information (Ctrl + F2) Hide subtasks (Alt + Shift + -) Show all tasks (Alt + Shift + \*)

## Formatting

Bold (Ctlrl+B) Italics (Ctlrl+I) Underline (Ctlrl+U)

# Refe<mark>re</mark>nces

## Book

Carl Chatfiled, Timothy Johnson. (2016). Microsoft Project 2016: Microsoft Project 2016 Step by Step. (First Printing). Redmond, Washington: Microsoft Press.

## Website

https://support.microsoft.com/en-gb/project

ref.customguide.com





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