Project Planning and Time Management

Gabriella Miles

2nd February 2024



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Gantt Chart

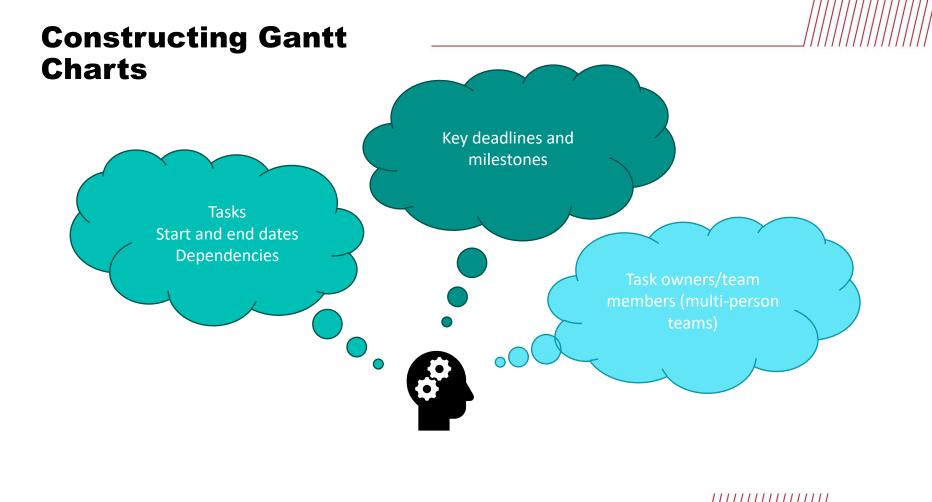
01 Gantt Chart

02 Pomodoro Technique

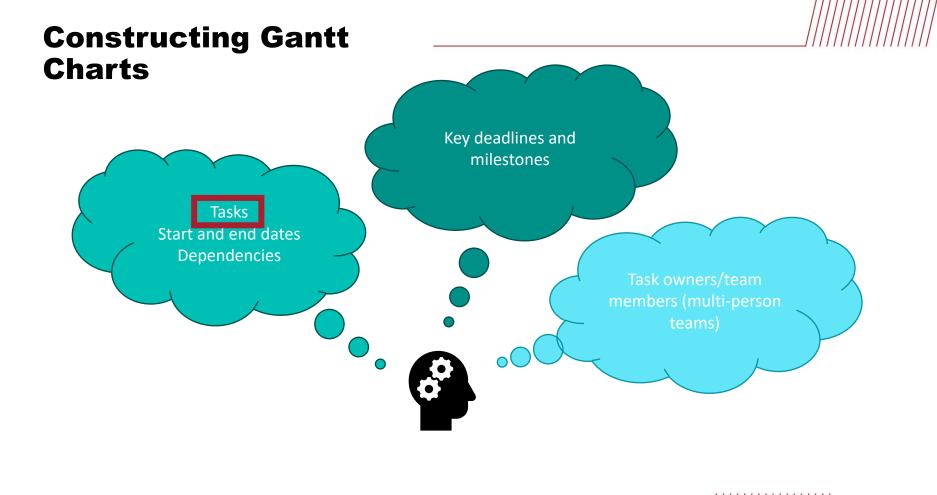








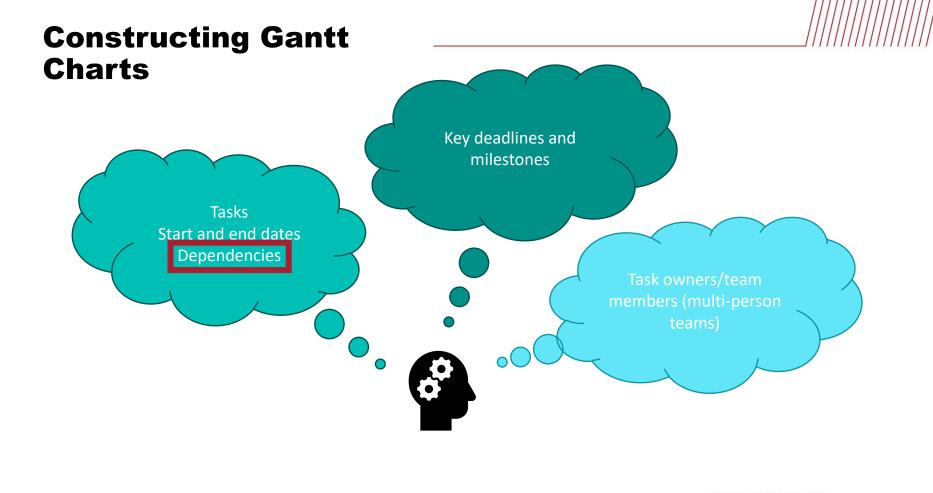




Tasks

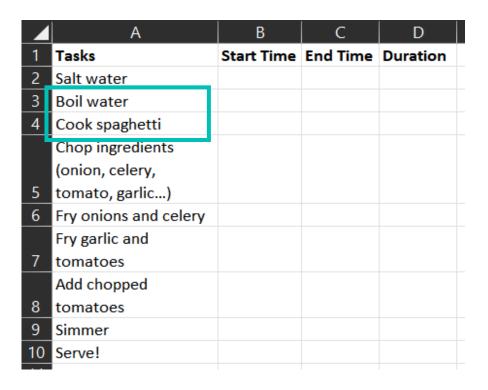
 List all of the tasks we can think of associated with the project

	A	В	С	D
1	Tasks	Start Time	End Time	Duration
2	Salt water			
3	Boil water			
4	Cook spaghetti			
	Chop ingredients			
	(onion, celery,			
5	tomato, garlic)			
6	Fry onions and celery			
	Fry garlic and			
7	tomatoes			
	Add chopped			
8	tomatoes			
9	Simmer			
10	Serve!			



Dependencies

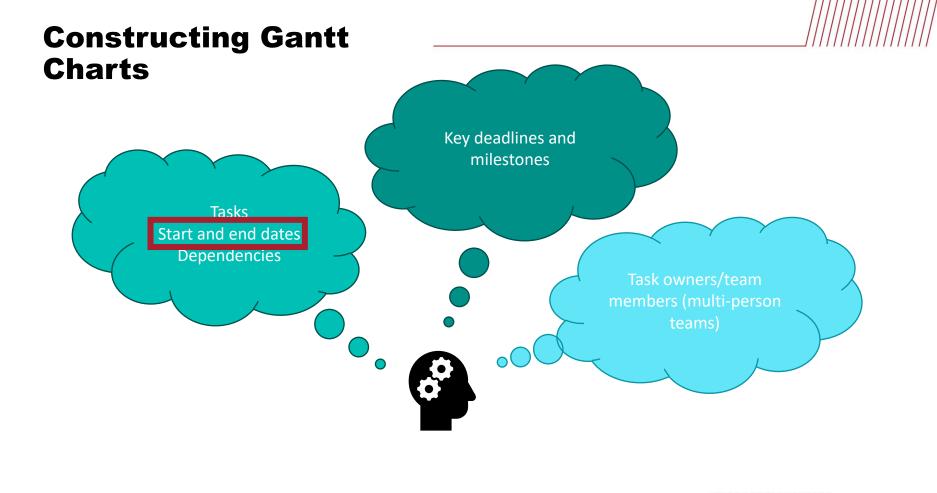
 Identify tasks we need to complete **before** we can move on to other tasks



Dependencies

 Identify tasks we need to complete **before** we can move on to other tasks

Α	В	C	D
Tasks	Start Time	End Time	Duration
Salt water			
Boil water			
Cook spaghetti			
Chop ingredients			
(onion, celery,			
tomato, garlic)			
Fry onions and celery			
Fry garlic and			
tomatoes			
Add chopped			
tomatoes			
Simmer			
Serve!			
	Salt water Boil water Cook spaghetti Chop ingredients (onion, celery, tomato, garlic) Fry onions and celery Fry garlic and tomatoes Add chopped tomatoes Simmer	Salt water Boil water Cook spaghetti Chop ingredients (onion, celery, tomato, garlic) Fry onions and celery Fry garlic and tomatoes Add chopped tomatoes Simmer	Salt water Boil water Cook spaghetti Chop ingredients (onion, celery, tomato, garlic) Fry onions and celery Fry garlic and tomatoes Add chopped tomatoes Simmer



Estimate duration of each task

 Important to be realistic – don't list how long you would like the task to take!

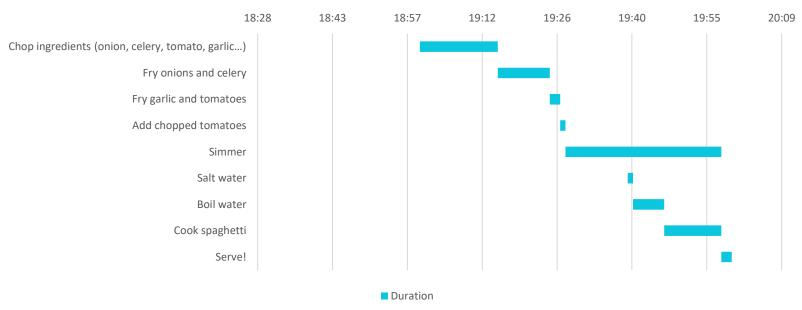
	А	В	С	D
1	Tasks	Start Time	End Time	Duration
	Chop ingredients			
	(onion, celery,			
2	tomato, garlic)			00:15
3	Fry onions and celery			00:10
	Fry garlic and			
4	tomatoes			00:02
	Add chopped			
5	tomatoes			00:01
6	Simmer			00:30
7	Salt water			00:01
8	Boil water			00:06
9	Cook spaghetti			00:11
10	Serve!			00:02

Estimate start and end times of each task based on duration

	A	В	С	D
1	Tasks	Start Time	End Time	Duration
2	Salt water	19:40	19:41	00:01
3	Boil water	19:41	19:47	00:06
4	Cook spaghetti	19:47	19:58	00:11
	Chop ingredients			
	(onion, celery,			
5	tomato, garlic)	19:00	19:15	00:15
6	Fry onions and celery	19:15	19:25	00:10
	Fry garlic and			
7	tomatoes	19:25	19:27	00:02
	Add chopped			
8	tomatoes	19:27	19:28	00:01
9	Simmer	19:28	19:58	00:30
10	Serve!	19:58	20:00	00:02

Plot the Gantt chart

Gantt Chart: cooking spaghetti with tomato sauce



- Compare planned schedule (baseline) with actual progress
- Timeline visualisation: easy to view timeline, tasks, and dependencies

Exercise 1

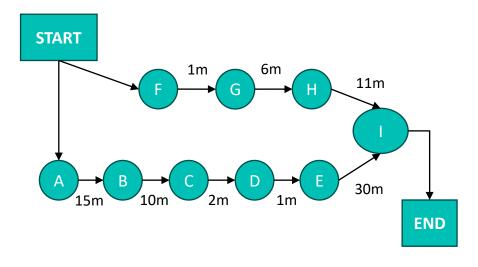
Creating a basic Gantt chart in Excel!

- 1. List all the tasks
- 2. Figure out dependencies
- 3. Determine start and end dates
- 4. Calculate task duration
- 5. Plot the Gantt chart

What task should I pick?

- A specific piece of coursework
- Managing coursework deadlines across the term
- A personal project
- Dissertation project

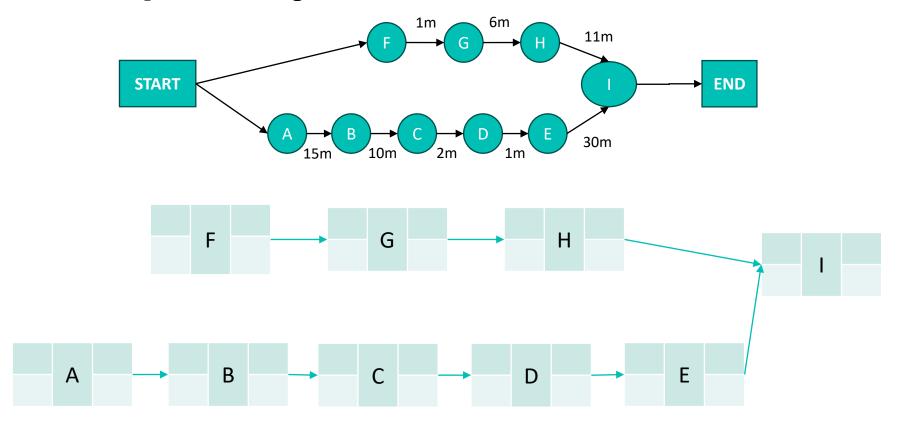
	Α	В	С	D	Е
1	Label	Tasks	Start Time	Duration	End Time
		Chop ingredients			
		(onion, celery,			
2	Α	tomato, garlic)	19:00	00:15	19:15
3	В	Fry onions and celery	19:15	00:10	19:25
		Fry garlic and			
4	С	tomatoes	19:25	00:02	19:27
		Add chopped			
5	D	tomatoes	19:27	00:01	19:28
6	E	Simmer	19:28	00:30	19:58
7	F	Salt water	19:40	00:01	19:41
8	G	Boil water	19:41	00:06	19:47
9	Н	Cook spaghetti	19:47	00:11	19:58
10	I	Serve!	19:58	00:02	20:00

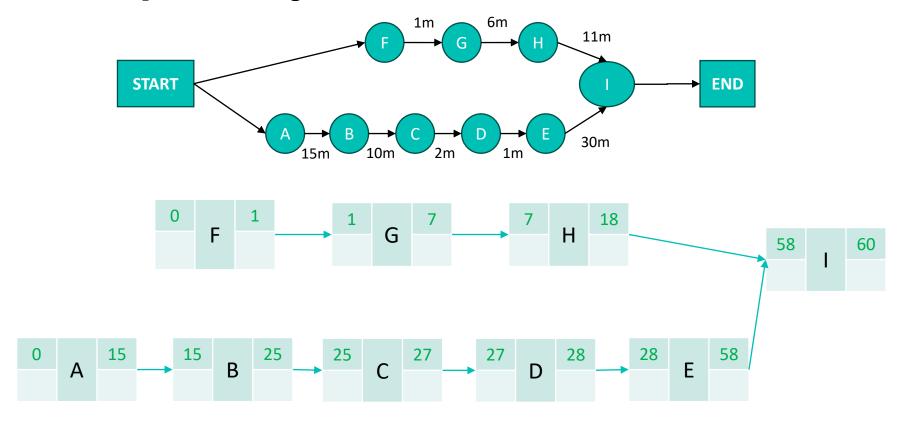


Presentation name

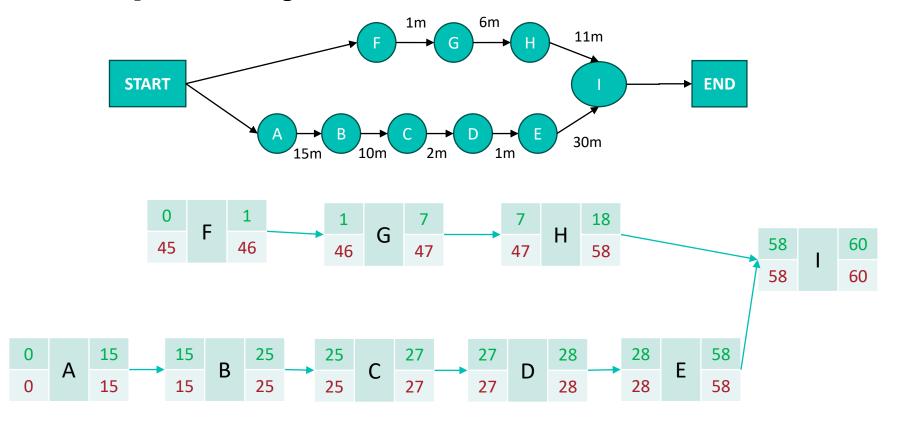


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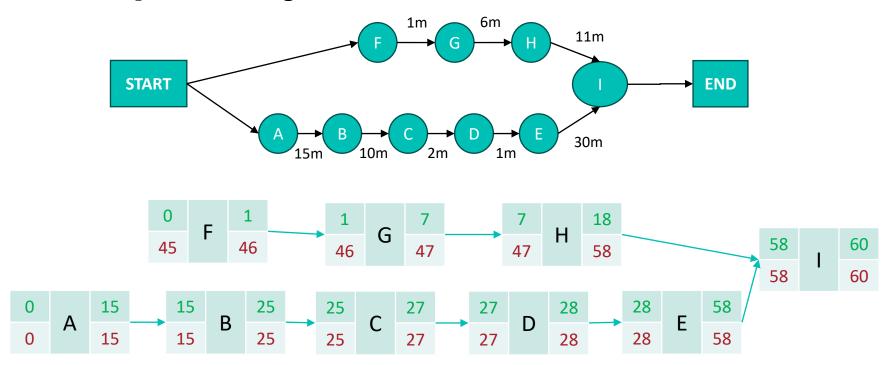












Critical Path: $A \rightarrow B \rightarrow C \rightarrow D \rightarrow E \rightarrow I$

Gantt chart summary

- Identify the critical path of a project
- Compare progress with schedule
- Easily visualise project timelines
- Identify tasks to complete, and dependencies, at a glance
- Good project overview!
- How to complete these tasks? How to manage daily workload?

Pomodoro Technique

01 Gantt Chart

02 Pomodoro Technique

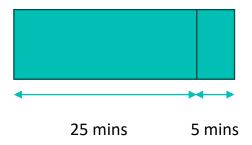






The Pomodoro Technique

What actually is a pomodoro?



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The Pomodoro Technique

Pomodoro after pomodoro



4 x pomodoro = 1 block

Pomodoro Process

What	When	Why
Planning	At the start of the day	To decide on the day's activities
Tracking	Throughout the day	To gather data about effort and achievement
Recording	At the end of the	Build an archive of observations
Processing	day	Analyse data, and get information
Visualising		Present information in a format so that we can improve our skills

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Planning the Day

The Activity Inventory Sheet

 List of everything that we need to do – in no particular order.

Date	Time	Activity	Est PD	Actual PD

Planning the Day

The Activity Inventory Sheet

List of everything that we need to do –
in no particular order.

Date	Time	Activity	Est PD	Actual PD
		Review CNN outputs and loss function plots, integrate to PP		
		Test trained CNN models on validation data, write results up in PP		
		Revise material to design new CNN models		

Planning the Day

The Activity Inventory Sheet

List of everything that we need to do –
in no particular order.

Date	Time	Activity	Est PD	Actual PD
		Review CNN outputs and loss function plots, integrate to PP	1	
		Test trained CNN models on validation data, write results up in PP	1	
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The Pomodoro Technique

What actually is a pomodoro?



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Date	Time	Activity	Est PD	Actual PD
		Review CNN outputs and loss function plots, integrate to PP	1	
		Test trained model CNN models on validation data, write results up in PP	1	
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No tasks longer than 5-7 pomodoros!

To Do Today sheet

Activity	Record	Est PD	Actual PD

To Do Today sheet

Fill out before you start working, every single day!

Activity	Record	Est PD	Actual PD

To Do Today sheet

Fill out before you start working, every single day!

Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP		1	
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Revise material to design new CNN models		2	





Estimated timetable

8-	ho	ur	WC	or	kd	a١

Time	Pomodoro Block
08:00 - 10:00	1
10:30 – 12:30	2
13.30 – 15:30	3
16:00 – 18:00	4

7-hour workday

Time	Pomodoro Block
08:00 - 10:00	1
10:30 – 12:00	2
13.00 – 15:00	3
15:30 – 17:00	4

To Do Today sheet

Fill out before you start working, every single day!

Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP		1	
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Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP		1	
Test trained model CNN models on validation data, write results up in PP		1	
Revise material to design new CNN models		2	



Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP	X	1	
Test trained model CNN models on validation data, write results up in PP		1	
Revise material to design new CNN models		2	



Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP	XX	1	
Test trained model CNN models on validation data, write results up in PP		1	
Revise material to design new CNN models		2	



Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP	XX	1	2
Test trained model CNN models on validation data, write results up in PP		1	
Revise material to design new CNN models		2	



Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP	XX	1	2
Test trained model CNN models on validation data, write results up in PP	X	1	1
Revise material to design new CNN models	XXX	2	3

What	When	Why
Planning	At the start of the day	To decide on the day's activities
Tracking	Throughout the day	To gather data about effort and achievement
Recording	At the end of the	Build an archive of observations
Processing	day	Analyse data, and get information
Visualising		Present information in a format so that we can improve our skills

Key Rules

- I. A pomodoro consists of 25 minutes + 5 minute break
- 2. After every four pomodoros is a 15-30 minute break
- 3. The pomodoro is an atomic unit of time and cannot be divided
- 4. If more than 5-7 pomodoros, break it down!
- 5. If less than 1 pomodoro, add it up!



Key Rules

- A pomodoro consists of 25 minutes + 5 minute break
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- 4. If more than 5-7 pomodoros, break it down!
- If less than 1 pomodoro, add it up!
- 6. An interrupted pomodoro is an invalid pomodoro
- 7. If the pomodoro begins, it must ring.





"I need to get a drink."/"I'm hungry."

"I should call Dave back."

"I need to debug my code for the lab class."

"I need to check a deadline."

External Interruptions

"Would you like to come and get some food?"

"Hey, call me back!"



Internal Interruptions

"I need to get a drink."/"I'm hungry."

"I should call Dave back."

"I need to debug my code for the lab class."

"I need to check a deadline."

External Interruptions

"Would you like to come and get some food?"

"Hey, call me back!"

"Could you go over the answer to XYZ?"





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Review CNN outputs and loss function plots, integrate to PP	XX	1	2
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Revise material to design new CNN models		2	

Presentation name



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Revise material to design new CNN models		2	

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Revise material to design new CNN models		2	

URGENT AND UNPLANNED

Debug code for lab class

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Activity	Record	Est PD	Actual PD
Review CNN outputs and loss function plots, integrate to PP	XX	1	2
Test trained CNN models on validation data, write results up in PP	O	1	
Revise material to design new CNN models		2	

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Test trained model CNN models on validation data, write results up in PP	<i>o</i> _	1	
Revise material to design new CNN models		2	

URGENT AND UNPLANNED

Debug code for lab class

Call Dave back

Get some food with a friend

Summary

Presentation name

- Mark internal interruptions with an apostrophe
- Mark external interruptions with a dash
- Reschedule interruptions for your short/long breaks (depending on how long they might take), or even make specific pomodoros for them!
- Or add interruptions to your Activity Inventory sheet to complete them on another day





Don't forget to rest!



The Burnout Circle

Don't forget to rest!



The Burnout Circle

Set a cut-off period after which you do no work!

Don't forget to rest!



The Burnout Circle

Set a cut-off period after which you do no work!

Timetables:

- 8.00-10.00, 10.30-12.30, 13.30-15.30, 16.00-18.00; no work after 6pm!
- 11.00-13.00, 14.00-16.00, 16.30-18.30, 19.00-21.00; no work after 9pm!



Managing Overtime

- Overtime and extra hours can be used to momentarily increase productivity
- To avoid the burnout spiral, try not to work overtime for more than five days
- Establish an ad-hoc timetable for this period
- Set aside recovery time (a drop in productivity will likely follow this overtime)



Summary

- A pomodoro consists of 25 minutes + 5 minute break
- 2. After every four pomodoros is a 15-30 minute break
- 3. The pomodoro is an atomic unit of time and cannot be divided
- 4. If more than 5-7 pomodoros, break it down!
- 5. If less than 1 pomodoro, add it up!
- 6. An interrupted pomodoro is an invalid pomodoro
- 7. If the pomodoro begins, it must ring.
- 8. Results come pomodoro after pomodoro.
- 9. The next pomodoro will be better.

Presentation name

Resources

- Presentation
- Excel Gantt chart
- Activity Inventory Sheet
- To Do Today sheet
- Pomodoro Technique summary notes

Presentation name

