Great choice - Dates & Time is very practical and comes up often in exams and real life. Here's your tutorial + starter workbook plan for Topic 8: Date & Time Functions.



Tutorial: Date & Time in Excel

Objective

Learn how to:

- Insert today's date/time automatically (T0DAY, N0W)
- Extract parts of a date (DAY, MONTH, YEAR)
- Format dates clearly (e.g., 21-Sep-2025 vs 21/9/25)

Why It Matters

- Excel stores dates as numbers (e.g., 21-Sep-2025 = 45192).
- · Functions let you calculate age, deadlines, or durations
- · Useful in attendance, scheduling, or reporting tasks.

A Steps

- 1. **TODAY()** → gives current date only (no time).
 - Example: =T0DAY() → 21-Sep-2025
- 2. NOW() → gives current date and time.
 - ∘ Example: =N0W() \rightarrow 21-Sep-2025 14:32
- 3. DAY() / MONTH() / YEAR() → extract parts of a date.
 - ∘ Example: =DAY(A2) \rightarrow returns 21 if A2 = 21–Sep–2025.
- 4. Formatting dates
 - ∘ Right-click cell → Format Cells → Date → choose style (e.g., long or short).

Worked Example

If cell A2 = 15/02/2024:

- =T0DAY() → today's date
- =N0W() → today's date + time
- =DAY(A2) → 15
- =MONTH(A2) → 2
- =YEAR(A2) → 2024

🔑 Try-it Tasks

Starter:

- 1. Use =T0DAY() in cell B2. What do you see?
- 2. In C2, type =N0W(). Compare with B2.

Core:

- 3. Cell A5 has 10/08/2023. Extract:
 - Day → in B5
 - Month → in C5
 - Year → in D5

Stretch:

4. If someone's birthday is 01/01/2000 in A10, write a formula to calculate their age in 2025 (hint: =YEAR(T0DAY()) - YEAR(A10)).

Common Mistakes

- Forgetting brackets () every function needs them (e.g., T0DAY X, T0DAY ()
- Wrong cell formatting (sometimes Excel shows ##### if the column is too narrow).
- Mixing up system date formats (UK = dd/mm/yyyy, US = mm/dd/yyyy).

Quick Recap

- TODAY() = current date
- NOW() = current date + time
- DAY(), MONTH(), YEAR() = extract parts of a date
- · Format cells to make dates readable

Next step: I can generate a starter workbook for practice.

It will have sheets: Instructions, Data, Tasks, Hints, Answers, Checklist, Lookup with preloaded dates and formulas.

Would you like me to generate the Python script so you can create the workbook on your computer?

User:
python

ChatGPT:

Awesome — here's a complete **Python (openpyxl)** script that builds your **Dates & Time** starter workbook with all required sheets, sample data, formulas, a dropdown, and a simple chart.

It saves dates_time_practice.xlsx in the same folder you run it from.

```
python
# create_dates_time_workbook.py
# Builds an Excel practice file for N Level: Dates & Time
# Sheets: Instructions, Data, Tasks, Hints, Answers, Checklist, Lookup
from openpyxl import Workbook
from openpyxl.styles import Font, Alignment, PatternFill, Border, Side, NamedStyle
from openpyxl.worksheet.datavalidation import DataValidation
from openpyxl.chart import BarChart, Reference
from openpyxl.utils import get_column_letter
from datetime import datetime
# ----- Helpers --
thin = Side(style="thin", color="CCCCCC")
border_thin = Border(left=thin, right=thin, top=thin, bottom=thin)
def set_col_width(ws, widths):
    for col, w in widths.items():
        ws.column_dimensions[col].width = w
def style_header(ws, row=1):
    for cell in ws[row]:
        cell.font = Font(bold=True)
        cell.fill = PatternFill("solid", fgColor="F2F2F2")
        cell.border = border_thin
        cell.alignment = Alignment(horizontal="center", vertical="center")
def apply_border(ws, cell_range):
    for row in ws[cell_range]:
        for c in row:
            c.border = border_thin
          -- Workbook -----
wb = Workbook()
# 1) Instructions
wsI = wb.active
```