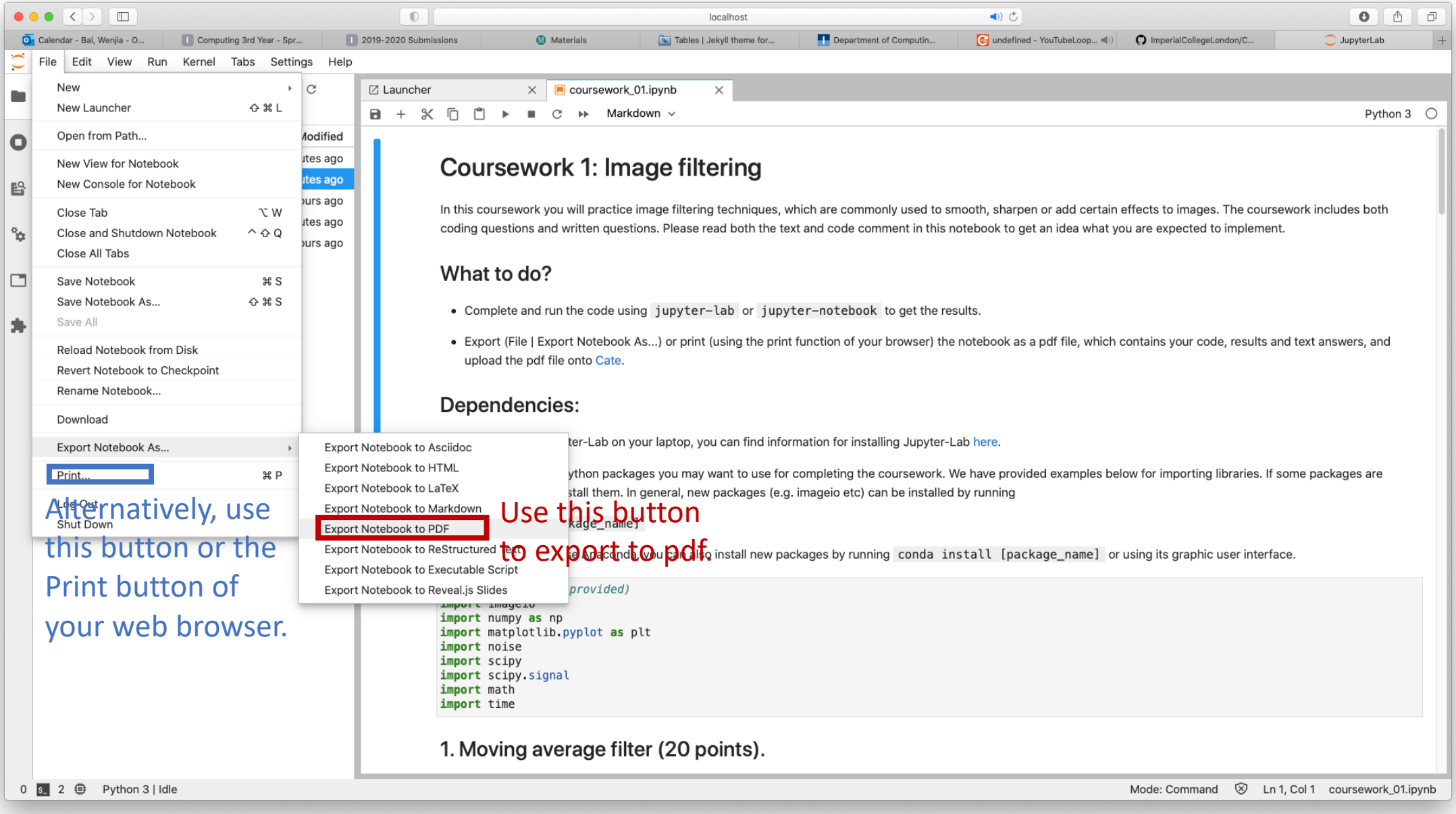
Coursework 1

- Image filtering and edge detection
- It is on GitHub

  git clone https://github.com/ImperialCollegeLondon/Computer_Vision_2022
- Work on coursework_01.ipynb using Jupyter-Lab

Coursework 1

- What to submit?
  - Export or Print the Jupyter notebook as a **pdf** file, which contains code, results and text comments.
- How to submit?
  - Upload to Cate (https://cate.doc.ic.ac.uk/)
- When to submit?
  - Due in two weeks time.
- There will be a lab session next week in the lab and on Teams.
  - We will provide general technical help.
  - However, we will not provide model answers.


localhost
File Edit View Run Kernel Tabs Settings Help
New
New Launcher ⇧⌘L
Open from Path...
New View for Notebook
New Console for Notebook
Close Tab ⌥W
Close and Shutdown Notebook ^⇧Q
Close All Tabs
Save Notebook ⌘S
Save Notebook As... ⇧⌘S
Save All
Reload Notebook from Disk
Revert Notebook to Checkpoint
Rename Notebook...
Download
Export Notebook As...
Print... ⌘P
Log Out
Shut Down
Export Notebook to Asciidoc
Export Notebook to HTML
Export Notebook to LaTeX
Export Notebook to Markdown
Export Notebook to PDF
Export Notebook to ReStructured Text
Export Notebook to Executable Script
Export Notebook to Reveal.js Slides
Launcher
coursework_01.ipynb
Markdown
Python 3
Coursework 1: Image filtering
In this coursework you will practice image filtering techniques, which are commonly used to smooth, sharpen or add certain effects to images. The coursework includes both coding questions and written questions. Please read both the text and code comment in this notebook to get an idea what you are expected to implement.
What to do?
Complete and run the code using jupyter-lab or jupyter-notebook to get the results.
Export (File | Export Notebook As...) or print (using the print function of your browser) the notebook as a pdf file, which contains your code, results and text answers, and upload the pdf file onto Cate.
Dependencies:
import numpy as np
import matplotlib.pyplot as plt
import noise
import scipy
import scipy.signal
import math
import time
1. Moving average filter (20 points).
Python 3 | Idle
Mode: Command
Ln 1, Col 1
coursework_01.ipynb
Alternatively, use this button or the Print button of your web browser.
Use this button to export to pdf.