Pete Nellist – Practical Class Organiser (PCO)

M Eng Materials Science Practical Class Briefing

I hope you read the brief guide to practicals

Also see Course Handbook

Most importantly

- practicals are COMPULSORY
- they again constitute "examinable coursework"

- satisfactory performance in Practicals is required in order to pass Prelims and proceed to Part I
 - normally need to achieve at least 40% (check Handbook when it is available) in practicals and have submitted your practical book and a report for marking on each of the practicals listed in the Handbook

...of course, mitigating circumstances will be taken into account. See Course Handbook.

Missing a practical / failing to submit a report

- you must inform the Education Manager (EM) if you miss a practical
- you must provide appropriate written evidence of a valid reason for missing a practical or failing to submit a report
 - or if submitting late
 in order to prevent penalties
- appropriate evidence includes
 - a medical certificate to cover illness
 - details need not be specified by the doctor
 - a signed letter from your College Tutor to cover other matters
- normally no later than one week later
- one copy to the EM and a second to the PCT
- assume your College will also require a copy to submit to the Proctors

Safety in the Teaching Labs

- everyone's safety is our highest priority
- every effort has been made to make the labs safe
- however, there is also an obligation on YOU to help
- some DOs and DON'Ts follow, taken from the Handbook

Safety and procedures

- DOs
- DO pay attention to the PCT and demonstrators
- DO read and follow safety instructions
- DO concentrate on what you are doing to avoid mistakes
- DO familiarise yourself with fire escape routes
- DO keep fire doors closed and escape routes clear
- DO wear appropriate eye and hand protection
- DO wash hands after working with chemicals
- DO work in a fume cupboard with etchants and solvents
- DO use minimum quantities of flammable liquids
- DO keep the labs clean
- DO speak in English at all times in the labs
- DO keep long hair tied back at all times

Safety and procedures

- DON'Ts
- DON'T eat, drink or put on make-up in the labs
- DON'T use your mobile phone
- DON'T mouth-pipette or lick things
- this includes sucking your pen!
- •and a couple of "obvious" ones:
- DON'T mess around
- if you do, you'll be required to leave
- DON'T wear inappropriate clothing and shoes
- e.g. sandals, short skirts, long scarves
- you'll be asked to modify your dress or leave
- •Note: it is important that the only language spoken in the Teaching Labs is English whether that be student-to-student or demonstrator-to-student such that if incorrect (and potentially unsafe) instructions are given, there is a better chance someone overhearing them will realise and be able to act.

When and where

- Thursday and Friday afternoons 2-5pm Excepts weeks 1 and 2
- undergraduate Teaching Labs (Holder Building)
- expect one practical every other week
 - half of you in odd weeks
 - half of you in even weeks
 - practicals in Trinity term arranged differently again
- you'll mainly be working in groups of three
 - each group will have its own set of equipment in MT and HT

Assistance while in the lab

• SD will usually be present at the beginning of the first afternoon and at times during the practical.

They will inspect your lab notebook and provide advice (varies somewhat depending on the requirements of the practical)

 Teaching Assistant (TA) and Practical Class Technician (PCT) present throughout

Term timetable

MT Wk	YEAR 1 (Thur, Fri) [except Week1, when it is Tues-Fri]
1	1P1a, Intro to Computing (Paul Warren, Tauseef Ansari)
2	1P1b, Intro to Optical Microscopy (Keyna O'Reilly , SLP)
3	1P2, Intro to LabView (Andrew Watt, Sebastian Bonilla)
4	
5	1P3, Young's Modulus & Stress Analysis (James Marrow,
6	AJW)
7	1P4, Metallography (Angus Wilkson, DEJA
8	

1P1 and 1P2 do not have laboratory notebooks assessed 1P3 is a formative assessment practical which requires a long journal paper report

Week 1 – 1P1a

	Tues Week 1	Wed Week 1	Thu Week 1	Fri Week 1
1	Dow, Cameron	Karpe, Amogh	Zhou, Weiqian	Chow, Maria
	CCC	CCC	STA	STA
2	Li, Yanzhe (Jerry)	Hunt, Edward	Wang, Hening	Ahmed, Riyad
	CCC	CCC	STA	STA
3	Peng, Zhihan (Victoria)	Sun, Jingjie (Jason)	Gupta, Aiyush	Zhou, Jingyun (Leo)
	CCC	CCC	STA	TRI
4	Lee, Yik (Alex)	Williams, Tycho	Jopling, Ben	Weill, Xavier
	CCC	SEH	STA	TRI
5	Ziglio,Giulio (Alvise)	Egan, Ptolemy	Huang, Huiyan	Jackson, Nelly
	QNS	SEH	TRI	TRI
6	Gudin, Arsene	Spencer-McDaniel Isabella	Sutherland, Max	Wiland, Weonika
	QNS	SEH	TRI	TRI
7	Yang, Chenyu (Jack)	Helsby, Kayla	Knight, James	Song, Yutong
	QNS	SEH	STC	STC
8	Yang, Lily Shun Hua	Kim, Tae Hwan	He, Weijia (Hudson)	Ayittah, Gerald
	QNS	SEH	STC	STC
9	Qi, Ziyang (Colin)	Chen, Tianyu (Charlie)	You, Like (Unique)	Chhowalla, Emile
	QNS	SEH	STC	MAN
10	Bolla, Amelia	Lee, Katherine	Russell, Alexandra	Fu, Yufei (Amy)
	QNS	SEH	MAN	MAN
11	Flanagan, Rowan QNS		Heydon, Matthew MAN	Yusuf, Mohad MAN
12			Lim, Issac MAN	Huang, Hongije (Rex) MAN

Timetables – Michaelmas Term

	rsday Week 2 rs & Fri Weeks 3, 5, and 7		
A1	Chow, Maria	Knight, James	Lee, Katherine
	STA	STC	SEH
A2	Gupta, Aiyush	Song, Yutong	Williams, Tycho
	STA	STC	SEH
A3	Jopling, Ben	You, Like (Unique)	Huang, Huiyan
	STA	STC	TRI
A4	Wang, Hening	Chen, Tianyu (Charlie)	Jackson, Nelly
	STA	SEH	TRI
A5	Zhou, Weiqian	Egan, Ptolemy	Sutherland, Max
	STA	SEH	TRI
A6	Ahmed, Riyad	Helsby, Kayla	Weill, Xavier
	STA	SEH	TRI
A7	Ayittah, Gerald	Kim, Tae Hwan	Wiland, Weonika
	STC	SEH	TRI
A8	He, Weijia (Hudson)	Spencer-McDaniel Isabella	Zhou, Jingyun (Leo)
	STC	SEH	TRI

Odd weeks

Timetables – Michaelmas Term

Friday Week 2 Thurs & Fri Weeks 4, 6, and 8			
B1	Dow, Cameron	Fu, Yufei (Amy)	Gudin, Arsene
	CCC	MAN	QNS
B2	Hunt, Edward	Heydon, Matthew	Qi, Ziyang (Colin)
	CCC	MAN	QNS
B3	Karpe, Amogh	Huang, Hongije (Rex)	Yang, Chenyu (Jack)
	CCC	MAN	QNS
B4	Lee, Yik (Alex)	Lim, Issac	Yang, Lily Shun Hua
	CCC	MAN	QNS
B5	Li, Yanzhe (Jerry)	Russell, Alexandra	Ziglio,Giulio (Alvise)
	CCC	MAN	QNS
B6	Peng, Zhihan (Victoria)	Yusuf, Mohad	
	CCC	MAN	
B7	Sun, Jingjie (Jason)	Bolla, Amelia	
	CCC	QNS	
B8	Chhowalla, Emile	Flanagan, Rowan	
	MAN	QNS	

How your practicals will be assessed

- All practicals except 1P1a, 1P1b and 1P2 will have the <u>lab</u> notebooks assessed.
- In addition, <u>selected</u> practicals (1P3, 1P6 and 1P8) will require writing a report, which will be <u>assessed</u> (counting towards prelims). The report will be prepared as if it was a <u>manuscript</u> submitted to Acta Materialia. <u>You will have 3</u> weeks to write a report.
- The first assessed practical will be formative, in order to provide feedback (1P3 Young's Modulus) on the lab notebook and the report

Contribution of marks to Prelims

- 8 practicals will have the lab books assessed, contributing with 3 marks each (Total of 24 marks)
- 2 practicals will have their reports assessed, contributing with 13 marks each (Total of 26 marks)
- Total contribution to Finals: 50 marks, out of a total for Part I of 500.
- DMAC has decided that no unmoderated numerical marks will be released, but formative feedback will be released.
- Tutors will be made aware of there is any concern about your marks.

Your practical notebook

- Lab notebooks cannot leave the Teaching Labs
- Lab notebooks are the property of the Department
- Lab notebooks are made available to Examiners

Lab book feedback

	Comments and feedback
Completeness	
and	
conciseness of	
method	
description	
Data analysis and any preliminary error analysis	
Brief interpretation or comment on results	
Presentation and clarity	

Full write-up assessment

- Title, abstract and Introduction 2 marks
- Description of methods used including methods of data processing and analysis – 3 marks
- Presentation of results including the appropriateness of figures and data presented, and the use of errors where appropriate – 4 marks
- Discussion and interpretation of results 3 marks
- Conclusions 1 mark

- Formative feedback electronically via Canvas
- Make sure you are aware how to submit (Course Handbook)

...and on a positive note

 Armourers and Brasiers' Company / TATA Steel Prize for best overall performance in Prelims practicals

and finally...

if in doubt about anythingjust ASK

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