

Welcome to the second year!

Welcome

- Survived the first year? **Well done.**
- The learning process is not over yet.
- More challenges lie ahead.
- 2nd year is more difficult than the 1st one. You will realise this very soon.
- More information and more difficult material to learn.
- Not everybody has registered. **Please, complete your registration online as soon as possible.**

Recipes for success

- Adopt good working practice:
 - Attend **all** lectures, tutorials and problem classes.
 - Make notes as detailed as possible.
 - Complete **all** homeworks, problem class works etc. in time. Penalties for late homework submissions: 5% per day up to 5 working days. Check with a lecturer for hand-in dates for homeworks.
 - Revise material shortly after the lecture. Do not delay the first revision until exam period.
- **Do not be late for your class.** If a class starts at 9:00, then you should be in the class room by 9:00.
- **Do not talk to each other during lectures.** When talking, you distract the lecturer and your classmates.

Contacts

- 2nd year tutor (Physics)

Dr. Vitaly Kudryavtsev, office F9b,
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- Other contacts:

[http://www.shef.ac.uk/physics/teaching/
second-year/contacts.html](http://www.shef.ac.uk/physics/teaching/second-year/contacts.html)

Modules, lectures

- Autumn semester:
 - PHY202, PHY203, PHY226 - core for all Physics programmes (Chemical Physics - PHY202 and PHY226).
 - PHY221 - also core for Single Honour Physics.
 - PHY230 - lab.
 - Also PHY225 - core for MPhys and all theorists.
- Spring semester:
 - PHY204, PHY206 - core for all Physics programmes.
 - PHY205, PHY227 - also core for Single Honour Physics.
 - PHY231 - lab.
 - Optional modules: PHY207 (core for theorists), PHY240.
- Full list of modules for each programme is available from the teaching web-page (link to 'Undergraduate regulations'):
<http://www.shef.ac.uk/physics/teaching/>

Tutorials

- 8 core modules (PHY202, 203, 221, 226, 204, 205, 206, 227) are supported by tutorials.
- Each tutor has a group of 14-16 students. The large groups can be split in 2 smaller size groups. Check the web-page or the notice board. Students should contact their tutor and arrange time for tutorials with him.
- One tutorial per week starting with week 2. Tutorials are **compulsory but not assessed**.
- Format is flexible and depends largely on you: your problems, participation and activity. Mainly discussion of problems with your active participation.
- Stay within a group, do not change the group unless absolutely necessary.
- Unfortunately we can provide only limited tutorial support for students taking only one core physics module. Please, contact the lecturer if you need additional help.

Problem classes

- 8 taught core modules (PHY202, 203, 221, 226, 204, 205, 206, 227) include problem classes.
- Groups of about 25-28 students. Check the web-page or the notice board (groups are still preliminary).
- Dates and times are specified as for lectures.
- One problem class per week starting with week 2.
- Do not change the groups, stay within one group - danger for marks to be lost if you change the group.
- Goal: to practice problems, prepare for exams.
- You **must** attend problem classes if you take that module. If you do not attend classes or do not hand-in your work, you risk losing 10% of marks.

Timetable

Y2 Physics

Timetable

Session 2011-2012

Semester 1

Week	Starting	Problem Class	Homework dates, set and returned				Other dates
S.1 wk 1	26-Sep						Y2 and Lab meeting (26/09, 3 pm)
S.1 wk 2	3-Oct	PHY226		PHY203 set			Tutorials start
S.1 wk 3	10-Oct	PHY203		▼	PHY226 set		
S.1 wk 4	17-Oct	PHY202		PHY203 ret	▼	PHY221 set	For due dates for lab reports, posters and vivas (PHY230) see the lab timetable in the 2nd Year Lab
S.1 wk 5	24-Oct	PHY221			PHY226 ret	▼	
S.1 wk 6	31-Oct	PHY226	PHY202 set			PHY221 ret	
S.1 wk 7	7-Nov	READING WEEK					
S.1 wk 8	14-Nov	PHY203	PHY202 ret				
S.1 wk 9	21-Nov	PHY202	PHY202 set	PHY203 set			
S.1 wk 10	28-Nov	PHY221	▼	PHY203 ret	PHY226 set		
S.1 wk 11	5-Dec		PHY202 ret		PHY226 ret	PHY221 set	
S.1 wk 12	12-Dec					PHY221 ret	

CHRISTMAS VACATION 18 December 2011 to 15 January 2012

S.1 wk 13	16-Jan	EXAMINATION PERIOD
S.1 wk 14	23-Jan	EXAMINATION PERIOD
S.1 wk 15	30-Jan	EXAMINATION PERIOD

- Exact hand-in dates for homeworks will be given by lecturers. Usually it is Friday of the week when the homework should be returned.

Hand-in dates

- Problem class work should be handed-in at the next week problem class. **Late submissions are NOT accepted.**
- Homeworks should be handed-in on the dates that will be given by lecturers. Usually this is on Friday on the week when the homework should be returned. Late submissions are subject to penalties: **5%** of the mark per day for a maximum of 5 working days; after that 0% is returned.
- If your total mark is **60%** but the work was submitted **5 days** after the deadline, then
 $1 - 5 \times 0.05 = 0.75$; $60\% \times 0.75 = 45\%$.

Assessment

- Most modules:
 - Homeworks - 20% (10% each).
 - Problem classes - 10% (5% each).
 - Exam - 70%.
- PHY207 (Numerical and Computational physics): coursework - 100% (no formal exam).
- PHY225 (Programming in C): coursework - 65%, formal exam - 35%.
- PHY230, PHY231 (Experimental Physics I and II): laboratory work - 100%, no formal exam.

PHY225 - Programming in C

- Due to a very high demand and limited space in the computer rooms, this module is offered mainly to students on the programmes for which it is the core module. **Those who have this module as a core one will be able to take it.**
- Some students (but probably not all) who have registered for PHY225 so far and have chosen this module as an optional one, will be able to take it. This depends on the number of students who will want to change programmes or modules. Please, check with the lecturer (Dr Lee Thompson) whether the place is available.
- We apologise for any inconvenience this may cause.
- Those who want to take PHY225 but have not registered yet, please, check with the lecturer whether a place is available.
- PHY225 is a prerequisite for PHY207. If you have registered for PHY207, you should also take PHY225.

Mark details

- Pass mark is **40%** per module.
- Assessment for most modules:
 - 70% exam + 20% homeworks + 10% problem classes.
- Resit marks **for the module** are capped at **40%**.
- No resits for most of the coursework. Check information on the web-page:
<http://www.shef.ac.uk/physics/teaching/second-year>
link to 'Second year information'.
- If no homeworks and problem class work:
50% at the exam will mean only **35%** for the final mark - fail!
57% is needed at the exam to pass (40%) without HW and PC.

Useful information

- General information about teaching, programmes, modules, timetable of lectures, cover sheets for homeworks etc.:

<http://www.shef.ac.uk/physics/teaching/>

- Information about 2nd Year, tutorial and problems class groups, lab work (experiment allocation), contacts etc.:

<http://www.shef.ac.uk/physics/teaching/second-year>

- Information about a particular module: web-page of the module; link from the teaching web-page to 'List of modules':

<http://www.shef.ac.uk/physics/teaching/modules.html>

- Also the notice board for the 2nd Year.

Difficult courses?

- Last year top marks for the modules:

Code	Subject	Top mark
PHY202	Quant Mech	98%
PHY203	Thermal Phys	92%
PHY204	Solids	98%
PHY205	Elec & Mag	96%
PHY206	At Spec & Relat	100%
PHY207	Num & Comp Phys	94%
PHY221	Top in Class. Phys	98%
PHY225	Prog in C++	98%
PHY226	Math Methods	96%
PHY227	Optics	94%

There is nothing wrong with modules or exams if well-motivated students could get first-class marks.

Our expectations

- We expect from you:
 - Good knowledge of the core material from the 1st year: both Physics and Maths. Keep your notes and lecture notes from lecturers (still available from the module web-pages). Look at them when necessary, check also the textbooks.
 - Hard work during the term (not only during the exam period); 40 hours per week is expected (depends largely on the student).
- All this is in your own interests.

Importance of Year 2 marks

- Year 2 marks contribute $1/3$ to the final BSc mark; $2/3$ is from Year 3 marks.
- Year 2 marks contribute $1/5$ to the final MPhys mark; $2/5$ are from Year 3 and Year 4.
- If you are registered for MPhys, you need to get at least 55% in your 2nd year to continue for MPhys.

Plagiarism and collusion

- Both are forms of cheating; as a result **0 mark** will be returned for the assignment plus inclusion in the **'Register of plagiarists'**.
- Plagiarism is growing. It is very easy now to fall into this when using different web-sites.
- Even if plagiarised work is not found immediately, it will remain with us and can be detected later - with a possible **retrospective loss of the degree**.

Plagiarism and collusion

- **There was a case of collusion 3 years ago in 2nd year lab.** Two students who have copied lab reports from 3rd year students received **0 mark** for the whole module. The case was put on their departmental records. One of them has plagiarised another coursework a year later and his case was reported to the Faculty. The Faculty panel has expelled him from the University.
- There were several cases of plagiarism in essays and other coursework last year. Students were penalised. Some of them received 0 mark for the assignment.
- Those who provide their own work for collusion will also be penalised.

Plagiarism and collusion

- All essays, literature surveys etc. **must** be submitted in electronic form to the special web-site with plagiarism checking software **TURNITIN** - check with your lecturer for details.
- Collusion: it is easy to fall into this by doing lab work or projects in pairs, or working together on homeworks or problem class works.
- There is nothing wrong in discussing the work with your friends but do final answers **alone**.
- It is easy for a marker to pick up similarities, especially if both answers are wrong in the same way.

Problems?

- If you feel sick and cannot attend lecture, problems class, tutorial, **phone or e-mail the Office** / lecturer / tutor and get medical note.
- If you experience long-term problems (medical problems, personal or family problems) that could affect your performance then **talk to the Year Tutor** (me) urgently. Medical problems require **medical notes** (documentation). It is practically impossible to deal with such problems retrospectively.
- Do not forget about **advisors (tutors)** - they may be able to help.

Future career

- Start to think about future career: research, business, building work?
- Consult with Career Services at the University.
- Write CV, think about improving it.
- Additional activities: summer placement (or any job), even part-time and/or unpaid.

Welcome!

- Welcome to the 2nd year!
- We wish full success and highest possible marks to all of you!
- Remember: we are here to teach you and help you.