welcome

to the 2nd year of Electrical and Electronic Engineering

Some info about the course

Useful contacts

- EE2 course organiser: Dr K Fobelets – rm 714
  k.fobelets@imperial.ac.uk
- ISE2 course organiser: Dr J Pitt – rm 1010
  j.pitt@imperial.ac.uk
- Senior tutor: Dr K. Fobelets – rm 714
  k.fobelets@imperial.ac.uk
- Welfare support and advice (women, disabilities):
  Mrs. C. Drysdale – Undergraduate office
  c.drysdale@imperial.ac.uk
- 2nd year Lab organiser: Dr T J W Clarke – rm 902
  t.clarke@imperial.ac.uk
- Year Abroad organiser: Prof A Astolfi – rm 1112
  a.astolfi@imperial.ac.uk

Registration

- **College** registration

- **Humanities** course registration
  - Step 1: On humanities website
    - http://www3.imperial.ac.uk/humanities
  - Step 2: On EE web site
    - https://intranet.ee.ic.ac.uk/electricalengineering/intrnl/options.asp

  Online deadline: Wed 5 October, 3.00 pm

- **Electrical lab partner** registration
  - Deadline: see meeting Dr. T. Clarke

Future

- ## MEng – BEng
  - Decision needs to be made end of this year
  - Progression criteria – read Award of Honours documents (EE web)
    - Progress to MEng:
      - 50% Maths
      - 50% Overall
      - NO SQTs

- ## Year abroad
  - Prof. A. Astolfi

The year abroad programme

The Department has several bilateral agreements with international institutions.

- Erasmus agreements: ENST Paris, INPG Grenoble, Ecole Polytecnique,
  KTH, LTH, KU Leuven, University of Seville,
  University of Rome.

- IDEA League: RWTH Aachen, ETH Zurich, TU Delft, and ParisTech.

- University of California.

- National University of Singapore.

Why?

To begin with …

- Discuss your plans/ideas with A. Astolfi.
  Ms. C. Drysdale can also give you advise on administrative issues.
  See:
  http://www3.imperial.ac.uk/people/a.astolfi/teaching/yearabroad

- Contact the Erasmus Club.

- Collect a 'Placements Abroad' guide from the Student Placement Office and contact Adrian Hawksworth for non-academic matters.

- The Student Placement Office organises a Study Abroad Information Session in February each year.

- Visit the webpage of the university you wish to go to.

… be prepared …

- If you go to Germany, France, the Netherlands, Italy, Spain, take evening classes in the language centre.

- The Language Centre can also advise on whether you can reach an appropriate level by your fourth year, when you will study abroad.

- Note that, with a few exceptions (ETH-Zurich, LTH, KTH) lectures are given in the language of the country where the institution is based.

- If you have not obtained at least 55% in your second year, you cannot go abroad, and have to change your registration to another stream.

Further opportunities abroad

- IAESTE: 8-week placement in a university abroad.
  See: www.iaeste.org.uk
      www.ic.ac.uk/urop/opportunitiesdirectory/otheropportunities/iaeste

- UROP National University Singapore (Second/Third year students)
  See:
      ic.ac.uk/urop/opportunitiesdirectory/uropopportunities/singaporeexchange

EE2 Teaching structure

- Lectures
- No study groups but
  - Classes (course lecturer)
  - Office hours (when you want 1-to-1 explanations)
- Tutorials
  - 1 session every 2 weeks – be there!
  - 1st session: getting to know tutee/tutor, info exchange
    - 1-to-1 session
  - Afterwards: tutorial booklet with questions
  - Points of contact (Welfare matters)
    - Friends, warden
    - Tutor
    - Senior tutor (Dr. K. Fobelets)
    - Support for women & for disabilities (Mrs. C. Drysdale, undergraduate office)

Courses – EE students

- Autumn term

15 hrs lectures, 8 hrs class, 3 hrs office hours
  - Analogue electronics
  - Digital electronics
  - Electrical Power Engineering
  - Introduction to Computer architecture

  - Mathematics
  - Humanities/language
  - Labs: EE & computer
  - 2nd year group project and Tech Comms

Timetable: http://www3.imperial.ac.uk/electricalengineering/internal

Courses – EE students

- **Spring** term

15 hrs lectures, 8 hrs class, 3 hrs office hours
  - Communications systems
  - Control
  - Signals and linear systems
  - Algorithm and data structure

  - Mathematics
  - Humanities/language
  - Labs: EE & computer
  - 2nd year group project and Tech Comms

Courses – EE students

- Summer term
- Choose 2 out of 3

10 hrs lectures, 5 hrs class, 1 hrs office hour

- Algorithms and complexity
- Devices II
- Fields

- Revision lectures
  - 2 hrs, all courses
  - Mathematics: study groups

EE Course organisation

week 1	2	3	4	5	6	7	8	9	10	11
	2hr digital	2hr digital	2hr digital	2hr digital	1hr digital 2OH	2 class 2OH	2hr digital	2hr digital 1 class	2hr digital 1 class	1hr digital 1 class 2OH
		1 class	1 class	1 class						
	2hr comp arch	2hr comp arch	2hr comp arch	2hr comp arch	1hr comp arch	2 class	2hr comp arch	2hr comp arch	2hr comp arch	1hr comp
	2hr analog	2hr analog	2hr analog	2hr analog	1hr analog 2OH	2 class 2OH	2hr analog	2hr analog 1 class	2hr analog 1 class	1hr analog 1 class 2OH
		1 class	1 class	1 class						
	2hr Power	2hr Power	2hr Power	2hr Power	1hr Power 2OH	2 class 2OH	2hr Power	2hr Power 1 class	2hr Power 1 class	1hr power 1 class 2OH
		1 class	1 class	1 class						

Assimilation weeks.
Time for increased revision.
Time to ask questions.
Time to do exercises

Lectures start in week 2

Practice classes start in week 3

Reduced lectures
Increased practice classes
Office hours for 1-1

Lectures re-start in week 8

Practice classes re-start in week 9

Do not take holiday in week 11!

Call for second year EE project proposals

Wednesday 5 October room 408 at 11am

Invited guests are:
Dr. Sunny Bains on Technical communications who will explain how to do research, how to work and communicate in group, …

Dr. Alison Ahearn, the faculty of engineering tutor on student led projects on what to get out of the project and how to proceed with successful feasibility studies

Dr. K. Fobelets will explain organisation of project selection and team building.

Submit **outline proposal** of max. 500 words and 1 figure on blackboard!
DEADLINE - Mon. 10 October 2011 11:59 pm

Project ISE2 students

- Prof. J. Pitt
  - Most courses similar to EE with exceptions
  - No option courses in summer term
  - Summer term group project

Scholarship Opportunities

The Power Academy

UK Electronics Skills foundation

Both are open only to Home and EU students.

Applications in October.
For more info and help see Mrs. Clare Drysdale in the undergraduate office on the 6th floor.

ECTS points

- **How can you earn extra ECTS points?**
  - **Industrial internships/placements**
  - **College extracurricular courses**
    - **Humanities department**
    - **Business School**
  - **UROP placement**
  - **Other research placements.**

- **What to do? (forms to fill in)**
  - **Register for ECTS credit in advance by completing an Activity Plan (see C. Drysdale or tutor).**
  - **On completion produce evidence signed by workplace supervisor. Assessment on:**
    - **Personal, technical and business development.**
  - **Write a 15 page report or journal summarising achievements.**
    - **This will be evaluated and marked by tutor during interview**

We hope you have an enjoyable 2nd year!