3rd year projects

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April 2011
What’s it all about
Educational Aim No 4

The ability
to plan and accomplish
a substantial project.
All the things you can do . . .

Explore the world of NP
Interactive tutorial
Wolfram’s new science
Fuzzy Lego truck
Multi-core processors
Cascading Style Sheets
3D chess
Voice XML

Exact Real Numbers
Counting queens
Parking Assistant
PDA browsers
Google APIs
Flow Visualization
Security Protocols

. . .
Get inspired!

–

Live up to the challenge!
Flavours of a project

• Suggested by member of staff
• Industrial related
• Own proposal
Projects suggested by a member of staff

Safest option:
• extent
• depth
• potential
are carefully balanced.

Project proposals in the research area of a staff member:
⇝ Optimal supervision.
Industrial related projects
Industrial related projects

Career opener?

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Industrial related projects

Career opener?
Clearly: Out of the ivory tower . . .
Industrial related projects

Career opener?
Clearly: Out of the ivory tower . . .

Risks include:
• Company looses interest
• Two bosses: supervisor and company
The “sail away” projects

Sail away
You can fly
On these wings of freedom
You can reach the sky
More seriously: The own projects

How:
Write your own proposal.
Find a supervisor to sign it off.

Risk:
Supervisor might not be familiar with the subject.
As always, there are the boring formalities
What? & When?

**Today:**
- Project Selection Fair

**Thursday, May 12, 16.00 – 17.30**
  - 3rd year / MEng Project Demonstration Fair

**Friday, May 13**
- Project selection

**End of June**
- Preliminary allocation

**During the summer:**
- Initial meeting(s) with your supervisor
**TB 1 (October – December ’11)**

<table>
<thead>
<tr>
<th>Teaching</th>
<th>Project</th>
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<tbody>
<tr>
<td>Term starts</td>
<td>Initial document</td>
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<tr>
<td>3.10.11</td>
<td>24.10.11</td>
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<tr>
<td>Term ends</td>
<td>Gregynog</td>
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<tr>
<td>16.12.11</td>
<td>21.–23.11.11</td>
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</tbody>
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# What? & When?

## TB 2 (February – May ’10)

<table>
<thead>
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<tr>
<td>Assessment</td>
<td>Interim document 13.2.12</td>
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<tr>
<td>Term starts</td>
<td>Dissertation outline 26.–30.3.12</td>
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<tr>
<td>Easter break</td>
<td>Demonstration Fair 1.5.12</td>
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<tr>
<td>Term starts</td>
<td>Dissertation 4.5.12</td>
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<tr>
<td>Terms ends</td>
<td>Assessment 8.5.–8.6.12</td>
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<tr>
<td></td>
<td>Term starts 30.1.12</td>
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What it’s worth . . .

20 credits – CS 354 (Development)
20 credits – CS 344 (Dissertation)

The project is 1/3 of the credits in the 3rd year!
CS 354 – Mark distribution

- 35%: Initial document
- 20%: Gregynog presentation
- 25%: Interim document
- 20%: Poster at the Project Demonstration Fair
Be ambitious in your project – it’s your best chance to show your abilities!
Practical hints
Dealing with the workload

• 400 hrs of time
  (equivalent to nearly 3 month of full time work)
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‘Obviously, some students will exceed this in order to produce an excellent body of work.’
Look it up in the Sommerville!

- What is a
  - Work plan,
  - Milestone,
  - Deliverable???
- Are design patterns useful in my project?
- How to come up with a system architecture?
- How to test my software?
- . . .

The most important tip

Manage your supervisor well – it’s your job to chase her/him up!
Gregynog == Great
by gokulives [ 1 2 3 4 ]
Project Demonstration Fair
Project Demonstration Fair

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Good luck with your project!