

# G52GRP 2012–2013: Lecture 1

## *Overview*

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## Aims (1)

1. Gain Software Engineering experience:
  - engineering requirements
  - system architecture and design
  - user interface design
  - implementing a medium sized, multi-component system
  - systematic testing and debugging
  - programming in a team
  - Software Engineering tools, especially version management (like Subversion)

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## This Lecture

- Aims
- Organisation
- Meet and Greet (from about 12:30)

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## Aims (2)

2. Gain general group working experience:
  - running meetings
  - making collective decisions
  - time and people management
  - writing reports
  - giving presentations
  - interpersonal skills
  - resolving conflicts (up to a point)

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## Module Web Site and Handbook

- Web Site:  
[www.cs.nott.ac.uk/~nhn/G52GRP](http://www.cs.nott.ac.uk/~nhn/G52GRP)
- All you need to know about G52GRP, in particular:
  - **Student Handbook 2012–2013**  
Everyone expected to read this very carefully!
  - important dates and deadlines
  - electronic copies of lecture slides etc.
  - group division and supervisor assignments
  - initial project descriptions

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## G52GRP in a Nutshell (1)

- You have been divided into groups of 5 or 6 students.
- Each group is assigned to a supervisor.
- The supervisor provides a short written description (project brief) of the software development project to be undertaken.
- Weekly formal (with supervisor) and informal group meetings.
- Support lectures.

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## G52GRP in a Nutshell (2)

- Assessment:
  - Project Site
  - Written reports:
    - Interim Group Reports,
    - Final Group Report
    - Individual Report
  - Open Day (“trade fair”)
  - Presentation
  - Peer assessment

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## Provisional Group Assignment

Provisional group assignment list available off the G52GRP web page: [~nhn/G52GRP](http://~nhn/G52GRP)

**Problem:** Module choices not definitive yet!

**Result:** I don't know exactly who is taking G52GRP.

To help stabilize the groups fast, please let me know if:

- you're not on the list but should be
- you're aware someone else should/shouldn't be.
- you cannot get in touch with some of your group members

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## Support Lectures, Autumn

- Overview (this lecture)
- Assessment and Work Organisation (8 Oct)
- Using Indefero: Project Hosting and Version Control for G52GRP (15 Oct)
- Guest lectures? (October–November)

Check the G52GRP web pages for up-to-date information!

I'll also advertise via the G52GRP mailing list.

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## G52SEM

G52SEM is a co-requisite for this module (unless you have taken G52SEM or G52LSS previously).

- Designed to support G52GRP
- Covers four main aspects:
  - The system analysis and design process (UML)
  - The project management process
  - Software Quality Assurance (testing, documentation)
  - Team Software Development Facilities (tools, e.g. version control)

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## Support Lectures, Spring

- Peer Assessment
- Writing an Effective Report
- Giving an Effective Presentation
- Group Project Open Day
- Any further guest lecture(s)?

Spring dates to be announced.

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## Time Line, Autumn 2012 (1)

- **End September–Early October:**
  - division into groups
  - groups contact supervisors
  - initial group and supervisor meetings
  - elect group leader
  - **make a rough time plan**
- **October:**
  - background research
  - turn project brief into initial requirements specification; agree with supervisor
  - initial design and prototyping

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## Time Line, Autumn 2012 (2)

- **November:**
  - **2 November:** group project site active
  - iterate requirements, design, prototypes
  - start writing interim report
  - consolidate prototypes/initiate main implementation effort
- **(Very) Early December:**
  - finish interim report
  - implementation well under way
- **7 December:** Interim Group Report due.

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## Time Line, Spring 2013

- **February:** implementation, testing, debugging; start writing up.
- **March:** system integration; finish report.
- **22 March:** final reports and software due
- **25 March–19 April:** Easter break
- **End April–Early May:** fine-tune implementation; prepare Open Day and Presentations.
- **8 May:** Open Day
- **10 May:** Presentation Day

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## Time Line 2012–2013: Caveats

Note that time is quite scarce during the spring:

- Projects essentially have to be completed **before** the Easter break.
- While there is some time after Easter to polish code for the Open Day, the markers will see the code as submitted before Easter.

**MANAGE YOUR TIME ACCORDINGLY!**

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## Group Project Site Active: 2 Nov 2012

- Each group gets a School-hosted project site (Indefero)
- Initial configuration and demonstration that **all** group members knows how to use site completed by 2 Nov.
- Further details TBA.

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## Interim Group Report: 7 Dec 2012

- Updated and expanded problem description.
- Background: technical background, related work; existing similar solutions.
- Requirements.
- Design of system and user interface.
- Results of initial implementation efforts.
- Fairly detailed time plan. (Develop early, and don't forget to factor in exam revision, other major activities, holidays . . . , keep updating it)

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## Final Group Report: 22 March 2013

- Updated and expanded version of the interim group report.
- Discussion on the design and implementation.
- Summary of what was achieved.
- Reflective comments on the success of the project.
- Description of testing (appendix).

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## Software: 22 March 2013

- Submitted electronically only.
- Only need to submit what you have written yourselves.
- Make sure software (e.g. libraries) from elsewhere is properly attributed.
- Software assessed along a number of dimensions, with evidence including the submitted software itself, testing-appendix in main report, Open Day demonstration, etc.

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## Individual Report: 22 March 2013

- Summary of personal contribution.
- Reflection on the project, the running of it, and own role within it.
- Peer assessment:
  - peer-evaluation on dedicated form;
  - written justification of evaluation.

Assessed on report qualities, not on individual contribution!

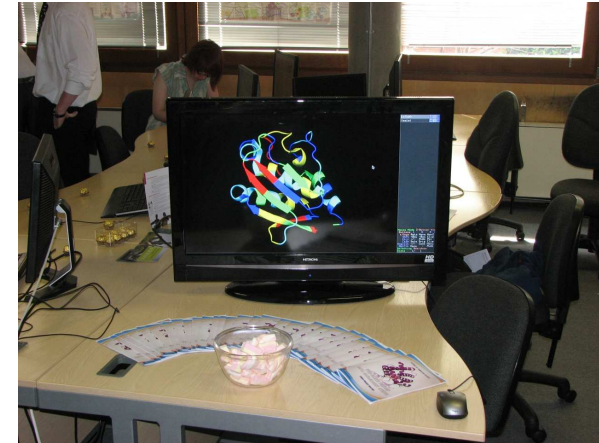
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## Open Day: 8 May 2013

- “Trade fair”: groups show off their finished applications to fellow students, members of staff, other interested.
- Each group sets up a stand:
  - Posters (School pays printing of one large poster)
  - Leaflets
  - Live demo
- The overall quality and professionalism of the stands and the people manning them is assessed.

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## Open Day 2011 (1)



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## Open Day 2011 (2)



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## Open Day 2011 (3)



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## Open Day 2011 (4)



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## Presentation Day: 10 May 2013

- 10 minute presentation covering
  - description of the problem solved
  - overview of the developed application
  - reflective remarks on the success of the project
- 5 minutes for questions.
- Attended by staff and students.
- It is the quality of the presentation itself and how questions are answered that is assessed.

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## Group Project Prizes

There are going to be **Prizes!** Typically:

- Prize for Best Group Project (discussing with potential corporate sponsors)
- School Prize for Best Open Day Stall
- Prizes awarded by GPAC: the Group Project Awards Committee.
- GPAC: academic members of staff and any representatives from corporate sponsors.
- Last year, GPAC was assisted by Alumni.

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