Essentials of Being a Teaching Assistant in Informatics

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What are the responsibilities of a teaching assistant (TA)?

Developing course material:
- What have you been required to do?
- How do you decide on what new content to include?
- Considering the bigger picture of course design.
- Some tips for clear and useful content

Supporting students:
- What kinds of support are you required to offer? What are the limits of your responsibility?
- Tips and tricks
- Other sources of support
What are the responsibilities of a TA?

Take a few minutes to discuss your responsibilities in small groups...
What are the responsibilities of a TA? (Informatics Teaching Support Policy)

- Some or all of the following:
  - Designing assessed/unassessed coursework
  - Designing tutorial material
  - Preparing slides and lecture notes
  - Creating and updating course information materials
  - Answering course-related student queries
  - Occasional delivery/support in delivery of lectures
  - Other similar support duties if mutually agreed
What are the responsibilities of a TA?

- In reality, may also involve tutoring, demonstrating and/or marking duties. For these, have a look at:
  - The Informatics Teaching Support Policy
  - The UoE “Code of Practice on Tutoring and Demonstrating”
  - The Informatics Student Services pages on the assessment process and the submission of late work
  - The academic services pages on academic misconduct
  - The student administration pages on exam marking regulations
Developing course material

Take a few minutes to discuss in small groups:

- What were you asked to do?
- What information influences your decision of the content to include?
- What preparation steps do you take to acquire this information?
Some preparation steps for deciding on content

- Discuss with the course organiser (CO) about his/her requirements and the course:
  - Aims and objectives
  - Prerequisites
  - Format and organisation
  - Student profiles
  - The content of other course components, how they work together
  - Experience from past years (what worked/not, student difficulties)
- Have a look at the course website and the course material.
- Discuss with colleagues from the course team
- Do any revision and reading that is necessary
The bigger picture of course design

- Is important to consider such that the content that you develop *aligns with other course dimensions*.
- Learning and teaching is driven in many countries by a curricula based on *aims and learning outcomes*.
- The *theory of constructive alignment (Biggs 2003)* is a widely adopted curricular framework; main ideas:
  - The learner should be seen at the centre of learning and teaching; *what he/she does is important*!
  - Aims and learning outcomes, learning & teaching activities and assessment should be aligned to provide transparency.
Focus on aims and learning outcomes

- **Aims** = broad statements defining the purpose of a course, module or learning activity; written from the perspective of the teacher (enable, support, facilitate, etc.)

- **Learning outcomes** = specific statements about the observable effects of the course, module or learning activity on students, i.e. what the students should know or be able to do; written from the perspective of the students (discuss, describe, calculate, etc.)

- Learning outcomes should be SMART: specific, measurable, achievable, realistic & relevant, time limited
Focus on aims and learning outcomes

Individually, access your course’s Informatics webpage and have a look at the course aims and learning outcomes
The Theory of Constructive Alignment
(Biggs 2003)

What students will know and be able to do as a result of the course

INTENDED LEARNING OUTCOMES

TEACHING AND LEARNING ACTIVITIES

The activities and experiences that support students in succeeding in the assessment

ASSESSMENT

How students demonstrate that they have acquired the desired Learning Outcomes

(Adapted from Biggs 2003)
Some tips for clear and useful content in lectures/labs/tutorials

1. Keep clear links to learning outcomes to help students towards achieving their learning goals.
2. Keep clear links to assessment such that there is a clear progression and the opportunity to practice for students.
3. Start from learning outcomes, setting more detailed ones if necessary, and NOT from what you know!
4. Tailor the content (level, quantity, language) to the students!
5. Pay more attention to topics which posed problems in past years or which you anticipate may pose problems.
6. Have a plan for evaluating your content, and change it if necessary.
Some tips for writing coursework instructions

- Keep clear links to learning outcomes, as assessment should be the opportunity to prove their achievement.
- Keep clear links to the content and methods used for other course components to be fair.
- Develop a marking scheme in conjunction with the instructions, and make sure that it gives more credit to important learning outcomes and less to less important ones.
- Tailor what is required (quantity, difficulty) to the students and their results in past assignments (but consult CO first!)
- Be open to improve the language/explanations if confusing.
- Use coursework results to evaluate the instructions, and improve it if necessary.
General tips for developing course material

- Consult with the CO before making any decisions
- Get his/her approval for any new content before providing it to the students
- Collaborate with the CO and course colleagues to ensure consistency between the content and methods of other course components (lectures, tutorials, labs)
- The different course components should complete each other to help students towards achieving the learning outcomes
What kind of student support are you required to offer, and where does it end?

In groups, take a few minutes to discuss:

- Your support responsibilities
- The limit of these responsibilities
- Other sources of support in the university
Some general support tips

- If you act as a tutor/demonstrator, it is your role to offer academic support to students in class.
- Advise students on the content of the course, but also on how they could develop their skills and study effectively.
- Be open to provide advice also outside of tutorial/lab times; clarify early with the students how they should contact you (e.g. office hours, email, after class).
- If you must advise students online (e.g. wikis), clarify with the CO the extent of this responsibility.
- For personal matters, refer students to other support sources.
(taken from “Helping distressed students” guide)
In a future session (Week 5), we will...

- Discuss the issue of supporting students more in depth, in terms of:
  - Academic support for developing skills
  - Personal support (what different services offer in more detail)
  - Online support and how it is different to face-to-face support
  - Boundaries
Resources

- Slides and other resources on Informatics homepage – Staff Intranet – Student Services – Teaching Support – Training
- For developing course material:
  - “Designing courses”, “Designing and delivering lectures” material on the “IAD Resources on Tutoring and Demonstrating” channel in Learn
  - IAD course “Designing and delivering lectures”, Wed 15 Feb
- For supporting students:
  - “Tutoring and Demonstrating: a Handbook” chapter 7 (“Supporting and Advising Students”)
  - “Advising students on personal and academic matters” material on the “IAD Resources on Tutoring and Demonstrating” channel in Learn
Resources

- IAD course “Advising on personal and academic matters”, Wed 15 March
- University Student Services
- The “Helping distressed students” guide for staff of the Student Disability Service