

# **University Teaching and Grading System & Ethical consideration**

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# Grading System

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- Credit (4, 3.5, 3, 2.5,..)
- Audit (N or P system)
- Thesis (S and U system)



# Expected features of a research degree

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- ▶ Independence
- ▶ Originality
- ▶ Contribution to knowledge
- ▶ Suitable for publication



# Research skills

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- ▶ Planning
- ▶ Execution
- ▶ Analysis
- ▶ Reporting



# Planning

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- ▶ Define clear objectives
- ▶ Identify context
  - importance & relevance
- ▶ Literature review
- ▶ Study design
- ▶ Determine analysis to meet objectives
- ▶ Protocol - Schedule and assign tasks



# Failing to plan is planning to fail

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- ▶ Research projects require a long-term integration of effort
- ▶ ‘Activity trap’ being busy  $\neq$  achieving progress



# Execution

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- ▶ Skills usually in your subject area
- ▶ Keep to protocol
- ▶ Record accurately
- ▶ Flexibility



# Analysis

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- ▶ Check data
- ▶ Carry out appropriate analysis
- ▶ Perform diagnostic checks on model assumptions
- ▶ Follow up unexpected features of data



# Reporting

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- ▶ Determine target audience
- ▶ Follow style & detail of journal
- ▶ Writing – Practice-practice-practice - courses on writing and presentation



# Writing and presentation skills

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- ▶ Reports and papers
- ▶ Poster(s) – usually years 1-2
- ▶ Oral presentation(s) years 2-3
- ▶ Presentation at international meeting(s)



# Qualifying exam

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- ▶ You have to be qualified to be a PhD candidate.
- ▶ It can be an oral exam, written exam or both depending on the decision of the examiners.



# Thesis proposal

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- ▶ All students have to prepare proposal within specified period. Otherwise you will be removed from the program.
- ▶ For a Master degree within 4 semesters.
- ▶ For a PhD degree within 6 semesters.



# Publication

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- ▶ Master degree –one publication
- ▶ PhD degree – 2 publications



# Intellectual properties

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- ▶ IP will belong to the university and your advisor.
- ▶ All contributor names have to be included in the publications.



# Thesis exam

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- ▶ Prepare thesis ready for exam and submit to university 2 weeks in advance.
- ▶ After your exam you have to prepare a thesis and submit to the university web portal.



# Graduation

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- ▶ After examination, your thesis must be corrected within 21 days.
- ▶ If the thesis cannot be corrected within 21 days graduation date will be delayed to the date you submit your thesis.



# Roles of program committee

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- Search for potential candidate
  - Establish research theme / direction of the discipline
  - Introduce manual and instruction for thesis
  - Suggest the thesis committee
  - Promote student knowledge sharing
  - Liaise problems between student and supervisors
  - Establish rules and regulation
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# Roles of program committee

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- Ensure that students participate fully in formal coursework and seminars.
- Assist students to develop the skills specific to a research and the more general professional competencies necessary for their career.
- Prepare regular reports on the progress of their students.



# Supervisors will be expected to:

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- Select research projects of a suitable scope
- Provide guidance and encouragement
- Make every effort to publish the results
- Arrange the time for supervision
- Suggest for a research plan
- Correct thesis and assure that it meets the requirement



# Students will be expected to:

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- Conduct their research under the guidance
- Complete and satisfy the assessment requirements
- Attend a research seminar
- Complete written reports
- Make oral presentations
- Develop team-working skills



# Students will be expected to:

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- Prepare and defend a thesis
- Demonstrate to the examiners that you have an appropriate level of knowledge



# Before you start doing your Thesis

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- You must appoint your supervisor (BV1)
- You must register as a student.
- All documents are processed through the Graduate School.



# What is Research Misconduct?



# Definition of Research Misconduct

Fabrication, falsification or plagiarism in proposing, performing, reviewing and/or reporting research.

## Fabrication/ Falsification of data

- ◉ Enhancing digital Images partially
- ◉ Excluding Data from articles, presentations, grants
- ◉ Performing statistical analysis in a deliberately dishonest way.
- ◉ Creating data that was never recorded or performed

**PLAGIARISM**

## Plagiarism

- ◉ Copying paragraph to use in a manuscript (article, thesis, grant, poster)
- ◉ Republishing your own work (Self-plagiarism)



**What do we need to show when misconduct has been found?**

**Who did it?**

**Was it done knowingly, intentionally, recklessly?**

**Email sequestration, hard drive analysis, lab members/  
collaborators interviews are critical piece of evidence.**





Research misconduct can go undetected for years, even when the misconduct is massive



A determined cheater can mislead collaborators indefinitely



Institutional commitment and careful adherence to policies and procedures are needed for successful investigations



The research community rely heavily on honest scientists in the lab to come forward with evidence of misconduct



The primary task of the committee was the development of principles and proposals to guide both national and local institutions in strengthening the professional standards of academic research.

**Behavior is guided  
by principles**

Our concern was the moral and professional climate of the research environment, which influences everyday practice and set the tone for future generations of researcher.

**Climate influences  
everyday practice**

By improving the integrity and quality of the institutional environment or research, we sought to foster professional research standards of individual researchers and to discourage future incidents of scientific misconduct.

**Improving integrity and  
environment will  
discourage misconduct**



