Project Informations
Master's degree in Computer Science (by research)
M2R Info. in short

Joseph Fourier University of Grenoble
& Grenoble INP

UFR IMAG http://ufrima.imag.fr
& ENSIMAG http://ensimag.grenoble-inp.fr

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Agenda

1 Research Project

2 Project assessment & graduation rules

3 Internship agreement

4 Questions

Project aims

A project...

- Involves research in computer science;
- Includes familiarising oneself with the subject, the laboratory work, the writing of the report and a defence.

The laboratory work involves:

- understanding of scientific issues taken from any domains of computer science,
- analysis and synthesis of the state of the art related to the subject,
- proposal for a solution and positioning contribution according to related work,
- validation of the proposed solution (experimental or theoretical).

Initial training in scientific research

Laboratory work calendar

- Part-time: as soon as possible
- Full-time: from February to June
- Defences first round: end of June
- Possible extension: from July to September
- Defences 2nd round: beginning of September

Project must last 5 months or more

Project report

- Written in English or French
- Structure: introduction, problem, state of the art, implementation, evaluation, conclusion, bibliography.
- Writing: vocabulary, spelling, grammar
- Style: clear, concise, illustrated and readable (actually, it will be read!)
- Size: 40 +/- 10 pages.

Printed copies of the report must be lodged by the due date, all at UFR IMAG Internship Office.
Plagiarism is easily detected : disciplinary commission

Project defence

Each defence lasts 60 mn:

- 20mn of presentation (must include research perspective for a PhD: 2-3 mn)
- 20mn of questions
- 20mn of deliberation.

Project hosting organisations

- Academic laboratories,
- Affiliated research centres,
- Research & development department in industry

in France or abroad...

Rule: students undertaking a project in another organisation then a local academic laboratory must find a local tutor.

Academic laboratories in Grenoble

- GIPSA (Images Parole Signal Automatique,
  http://www.gipsa-lab.inpg.fr)
- GSCOP (Combinatorial Optimisation, Operations Research for
  Production Systems, Production System and Operation Management,
  http://www.g-scop.inpg.fr)
- Laboratoire d'Informatique de Grenoble (IT infrastructure, software,
  interaction, and knowledge processing, http://www.liglab.fr)
- Laboratoire Jean Kunztmann (Applied Mathematics and Computer
  Science, http://www-ljk.imag.fr)
- TIMA (Techniques of informatics and microelectronics for integrated
  system architectures, http://tima.imag.fr)
- TIMC-IMAG (Techniques for biomedical engineering and complexity
  management, http://www-timc.imag.fr)
- Verimag (theoretical and technical means for developing embedded
  systems, http://www-verimag.imag.fr)

Local research centres and R&D in industry

- Xerox Research Centre (XRCE)
- Orange Labs
- CEA LETI or LIST
- Alma
- STMicroelectronics
- ...

Board of Examiners

Composition

- The Project supervisor and co-supervisor(s)
- An external expert nominated by the supervisor
- 3 panel members who attend all defences
- The "option" representative

Assessment criteria

1 Scientific Contribution (4 criteria):
  1 Problem definition and analysis,
  2 Originality of contributions
  3 Comparison of the solution to the state of the art,
  4 Evaluation of the proposed solution (or guides for it).

2 Written Report (2 criteria):
  1 Text structure,
  2 Clarity of the discourse and quality of the writing.

3 Defence (2 criteria):
  1 Clarity and quality of the presentation,
  2 Ability to answer questions.

Each of which will be marked A, B, C, D or E.

Assessment criteria: scale

- A (16) Exemplary. Exceptional.
    - Makes a fundamental contribution to the state of the art.
    - Merits publication
- B (14) Very Good.
    - A solid research contribution.
    - Provides contributions to the state of the art.
- C (12) Good.
    - Can undertake doctoral studies
    - Shows understanding of scientific state of the art.
    - Could lead to a contribution.
- D (10) Acceptable.
    - Sufficient for a masters degree.
- E (8) Poor.
    - Insufficient quality.

Graduation rules

Award of Master's degree:

- Range of marks: [0..20]
- Mark of 7 or above for each unit (UE)
- Weighted average mark of 10 or above for both semesters
    - Semester 1: set of UEs for 30 ECTS (each for 3 or 6 ECTS)
    - Semester 2: research project for 27 ECTS and one unit from other field (mainly English or French courses) for 3 ECTS

There is one final exam per unit. However, some units might have intermediate exams. In each unit, you should have been told the rule that fixes your mark.

Grading system

Overall mark for the Master:

- For LMD students: $(M1 + M2)/2$
- For others: M2

(16..20)	Tres Bien	Excellent
(14..16(	Bien	Very Good
(12..14(	Assez Bien	Good
(10..12(	Passable	Pass
above 10	Ajourne	Fail

12 or above is required to undertake doctoral studies
at University of Grenoble (local rule)

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Process of establishing internship agreement

1. Agree on a project together with its supervisor
   - Pick subjects you are interested in (see http://projets-mastermi.imag.fr/pcarre/)
   - Contact possible supervisors, discuss with them
   - Stir up new project ideas by discussing with researchers you would like to work with
2. Make sure the project description is published in the web application (supervisors only are allowed to enter project descriptions).
3. Start paper work to establish internship agreement

Email noel.depalma@imag.fr when you found a project.

Process of establishing internship agreement (cont.)

Paper work :

- Online agreement process
    - INP students:
        - Elena Leibowitch (Elena.Leibowitch@grenoble-inp.fr)
    - UJF students:
        - Carole Durand (Carole.Durand@ujf-grenoble.fr)
- Elena and Carole contact the program director in charge of projects (if the description is not entered in projetPCarre, its validation is automatically rejected).
- Once this validation is granted, the internship agreement is made ready for signatures.

Key dates

- Enrolment in a research project due the 30th of November, 2013
- First round:
    - Nomination of external experts: 12th of May, 2014
    - Report submission: 16th of June, 2014, 12H
    - Defences: 23rd-24th-25th of June, 2014
- Second round:
    - Nomination of external experts: 1st of August, 2014
    - Report submission: 29th of August, 2014, 12H
    - Defences: 1st and 2nd of September, 2014

French Education Ministry doctoral Scholarships are allocated in July.

Any questions?

For more information, please see
http://ufrima.imag.fr/spip.php?rubrique152