INTERNSHIP (Advanced Master in Naval Architecture, ULg)

Durée : 3 months

Crédits : 8 credits

Titulaire(s) : EMSHIP staff

Coordinateur(s) : The coordinator of the EMSHIP program ([www.EMSHIP.EU](http://www.EMSHIP.EU) )

Course contents : The internship is a substantial individual project that must be accomplished in a private company or research center, in Belgium or abroad. We generally consider that it amounts to 3 months of full time work. The subject is generally proposed by a private company and approved by an advisor who must be an academic member or a permanent researcher.

Learning outcomes of the course :

 The goal of the internship is to prepare the student to his/her future career in a private company by discovering a professional environment and specialized software development techniques. The student will have to prove that (s)he can carry out a substantial project based of his/her theoretical and practical knowledge and skills. This project will include a preliminary study, some substantial development, and a final evaluation of the results. The internship can be combined with the master thesis, but need his own report and assessment.

Mode of delivery :

 Internship in a company or research center.

**Assessment methods and criteria** :

 The evaluation is based on the report written by the student. There are no formal constraints on its length, but it will typically be 30-page long. It should describe the context of the work, the company, the problem addressed, the methodology, the accomplished tasks, the obtained results, and a conclusion (contributions and perspectives). It is necessary to provide enough quantitative information on the implemented programs and the accomplished tests. The final grade takes account of the amount and quality of the achieved work, the quality of the written report and eventually of the oral presentation, as well as the opinion of the industrial advisor.

Work placement(s) : Professors propose internship subjects for which they will act as academic advisor. These subjects are collected from private companies. A student can also make a proposal, but it must be approved by an academic advisor. Students should choose a subject as early as possible, ideally at the end of the previous academic year, if they want to start during the summer holidays. The internship will have a minimal duration of 60 working days spent in the company. It can start as soon as the student has finalized his/her registration, for example during the summer holidays. It is organized according to the terms of a sample agreement signed by all parties.

**Organizational remarks**:

 The regulation, detailed guidelines, the sample agreement, and proposed internships can be found at: [www.EMSHIP.EU](http://www.EMSHIP.EU)

Contacts : President of the jury : Mr Ph RIGO - <ph.rigo@ulg.ac.be>

 Secrétaire of the jury : Mr A HAGE, <ahage@ulg.ac.be>

 Apparitorat : Mme M. Drianne, (monique.drianne@ulg.ac.be)

ATFE0002-1 MASTER THESIS (at ULG)

Durée : 4-6 months

Crédits : 20 credits

Titulaire(s) : Collégialité

Coordinateur(s) : The coordinator of the EMSHIP program ([www.EMSHIP.EU](http://www.EMSHIP.EU) )

Course contents : The master thesis is a substantial individual project that can also be realized in (collaboration with) a private company, in Belgium or abroad. We generally consider that it amounts to 3 months of full time work. The subject must be proposed or approved by an advisor who must be an academic member or a permanent researcher.

Learning outcomes of the course :

 The goal of the master thesis is to prepare the student to his/her future career in a private company. The student will have to prove that (s)he can carry out a substantial project based of the theoretical and practical knowledge and skills acquired during his/her studies. This project will almost always include a preliminary study, some substantial development, and a final evaluation of the results.

Prerequisites : It is advised to choose the optional courses that will help achieve the thesis objectives.

Mode of delivery :

 Professors propose thesis subjects for which they will act as official advisor. These subjects are either conceived by the advisor on topics related to his/her research fields, or by private companies. A student can also make a proposal, but it must be approved by an advisor. Students should choose a subject as early as possible, ideally at the end of the previous academic year, to increase the chances to finish by the deadline. The council of computer science studies will make sure that all students have a subject and will also check the composition of the jury. The student will keep his/her advisor informed of his/her progress on a regular basis.

Assessment methods and criteria :

 The evaluation is first based on the report written by the student. There are no formal constraints on its length, but it will typically consist of 80 to 120 pages. It should describe the context of the work, the problem addressed, the proposed solution with some justification of the design choices, an evaluation, a conclusion and possibly some appendices. The thesis defense by the student is oral and public. It consists of an oral presentation, a question/answer session, and is followed by a short deliberation. The final grade takes account of the amount and quality of the achieved work, the quality of the written report and of the oral presentation, as well as the relevance of the provided answers.

Remarks : The regulation, detailed guidelines and examples of topics can be found at : [www.emship.eu](http://www.emship.eu)

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