nvao
nederlands - vlaamse accreditatieorganisatie

Domeinspecifieke leerresultatenkader

Cluster   :   **-**

Opleiding   :   Master of Science in Financial and Actuarial Engineering
                     (master-na-master)

Niveau   :

o   Vlaamse Kwalificatiestructuur   7
o   Codex Hoger Onderwijs   MA
o   Europese Hoger Onderwijs Ruimte (Dublin-descriptoren)   2e cyclus
o   Europees Kwalificatiekader voor een Leven Lang Leren   7

Opleiding wordt aangeboden aan de volgende instellingen:
-   Katholieke Universiteit Leuven

Domeinspecifieke leerresultaten van de opleiding:

Graduates from the Master in Financial and Actuarial Engineering (MFAE) at KU Leuven:

1. Are able to formulate a relevant research question, set up a research plan, select the appropriate research method, and conduct the research in a creative, independent, effective and correct way, and they exhibit a critical attitude towards the results.
2. Are capable of presenting own research results and solutions of real-world financial or actuarial engineering problems in a scientifically grounded way, both in writing and orally.
3. Can critically appraise methodology, and challenge proposals for and reported results of financial and actuarial engineering solutions. They have acquired a critical attitude towards underlying assumptions in any financial or actuarial model.
4. Engage in independent learning and have developed an attitude towards lifelong learning. They are capable of acquiring new knowledge through consulting appropriate sources in the international scientific literature.
5. Demonstrate advanced knowledge of and insight into the state-of-the-art concepts,

models and principles of their chosen specialization (financial and/or actuarial engineering), both from a theoretical as well as applied point of view.

6. Demonstrate insight into the interconnectedness of financial engineering and actuarial issues and are able to provide scientifically sound solutions for complex real-world problems in their domain of specialization (financial and/or actuarial engineering).

7. Are able to analyze and solve advanced financial or actuarial engineering problems with the help of up-to-date scientific knowledge, while using and consulting reference frameworks, concepts and techniques from related fields such as economics, (computational and theoretical) statistics, (computational and theoretical) mathematics and law.

8. Are able to select and use the most suitable analysis technique and software tool or programming environment for a specific problem arising within the area of financial or actuarial engineering. They have hands-on experience with software and scientific programming tools and their use in financial or actuarial engineering cases.

Datum validatie: 9 maart 2015