

FACULTY EDUCATION AND EXAMINATION CODE FOR DOCTORAL MATTERS FACULTY OF ECONOMICS AND BUSINESS ADMINISTRATION – FOERD FEB –

(Dutch version approved by the Faculty Council on 26 June 2024)

Readers should be aware that only the Dutch version of this regulation has legal force. This English translation is strictly for reference and cannot be invoked as a legal tool.

INTRODUCTION

The Doctoral Regulations as presented in this document contain faculty specific stipulations for those who wish to proceed to a doctor's degree within the Faculty of Economics and Business Administration. These stipulations should be regarded as a faculty complement to the regulations in the "[Education and Examination Code for Doctoral Matters](#)" (OERD) of Ghent University. This version of the regulations takes effect from 1 September 2024.

The Doctoral Regulations apply to all doctoral students at the Faculty of Economics and Business Administration.

These regulations also apply to doctoral students who seek a combined degree for an interdisciplinary PhD and who indicate the Faculty of Economics and Business Administration as their main faculty, unless the two faculties involved decide differently. These doctoral students also respect the related decisions of the Executive Board of the University of 29 April 2016.

FACULTY REGULATIONS

[Article 1](#)

Students who wish to proceed to a doctor's degree within the Faculty of Economics and Business Administration (FEB) must present their request to the Faculty Council with the approval of at least one FEB-supervisor. To initiate the doctoral process at the FEB the supervisor starts up the application for admission via OASIS and the doctoral student completes the necessary information.

Each PhD student at the Faculty of Economics and Business Administration must declare to have knowledge of the Doctoral Regulations and of the Research Code of Ethics of the Faculty (<https://www.ugent.be/eb/en/information-for-staff/documents/research-code-of-ethics-feb.pdf>) and must agree to act accordingly.

With one exception defined in **Error! Reference source not found.**, the doctoral training programme is compulsory in the FEB.

After obtaining approval from the Faculty Council, the Faculty Student Administration registers the enrollment in OASIS, allowing the candidate to complete their enrollment. The enrolment for the doctoral training programme needs to be renewed annually.

Article 2 Doctoral Advisory Committee

§1. For each doctoral project, the Faculty Council will assemble a doctoral advisory committee at the suggestion of the supervisor in accordance with the OERD. This doctoral advisory committee consists of minimum three and maximum five members, including the supervisor(s). At least one member must be an expert external to the department of the supervisor, and preferably an external expert unrelated to Ghent University.

The doctoral student is expected to have contacts with the professional field during the doctoral process. These contacts can be established at various times, with various people, in various ways, for example by including at least one external member from the professional field in the doctoral advisory committee where relevant.

The doctoral advisory committee has to be appointed at the Faculty Council meeting of the first enrolment for the doctorate. The members of the doctoral advisory committee and the doctoral student commit themselves to respect the provisions of the PhD Charter (<https://codex.ugent.be?regid=REG000088&lang=en>).

§2. The doctoral student may address a written motivated request to phd.eb@ugent.be (with the supervisors in CC) to alter the composition of his/her doctoral advisory committee, including the supervisor(s). This request will be submitted to the Faculty Council.

Article 3 Doctoral training programme

§1. As a rule, doctoral students at the FEB are obliged to follow the doctoral training programme. For every doctoral student who first enrolled in the academic year 2020-2021 or later, the Doctoral Training Programme consists first of all of the mandatory digital introduction programme that is provided by the Doctoral School via Ghent University's digital learning environment. The mandatory introduction programme must be successfully completed during the first year of registration. The content of the rest of the mandatory doctoral training programme differs according to the master diploma of the prospective doctoral student and the intended doctoral title.

§2. For doctoral students who are preparing a **PhD in Business Economics** and holding a master diploma in Business Engineering, in Business Economics, in Economics or in Business Administration (or similar); the compulsory programme consists of:

- (1) three oral presentations or posters at (inter)national conferences,

- (2) three specialist training courses organized or acknowledged by the Doctoral School¹ and
- (3) three transferable skills trainings organized or acknowledged by the Doctoral School² and chosen from three out of four following clusters: 'communication skills', 'research and valorisation', 'career management' and 'leadership and self-management'.

§3. For doctoral students who are preparing a **PhD in Business Economics** and who do not hold a master diploma in Business Engineering, in Business Economics, in Economics or in Business Administration, the programme consists of:

- (1) the course Economics (Preparatory Course - F000916),
- (2) three oral presentations or posters at (inter)national conferences,
- (3) three specialist training courses organized or acknowledged by the Doctoral School¹,
- (4) three transferable skills trainings organized or acknowledged by the Doctoral School² and chosen from three out of four following clusters: 'communication skills', 'research and valorisation', 'career management' and 'leadership and personal efficiency'.
- (5) Besides that, a maximum of three other specialist training courses may be imposed. To this end, the supervisor submits a proposal to the Faculty Council for approval when applying for the first enrolment for the doctorate.

§4. For doctoral students who are preparing a **PhD in Public Administration and Management** and holding a Public Administration and Management master diploma the compulsory programme consists of:

- (1) three oral presentations or posters at (inter)national conferences,
- (2) three specialist training courses organized or acknowledged by the Doctoral School¹ and
- (3) three transferable skills trainings organized or acknowledged by the Doctoral School² and chosen from three out of four following clusters: 'communication skills', 'research and valorisation', 'career management' and 'leadership and self-management'.

§5. For doctoral students who are preparing a **PhD in Public Administration and Management** and who do not hold a Public Administration and Management master diploma, the programme consists of:

- (1) three oral presentations or posters at (inter)national conferences,
- (2) three specialist training courses organized or acknowledged by the Doctoral School¹,
- (3) three transferable skills trainings organized or acknowledged by the Doctoral School² and chosen from three out of four following clusters: 'communication skills', 'research and valorisation', 'career management' and 'leadership and personal efficiency'.
- (4) Besides that, a maximum of three other specialist training courses may be imposed. The supervisor submits a proposal to the Faculty Council for approval when applying for the first enrolment for the doctorate.

§6. For doctoral students who are preparing a **PhD in Economics** the compulsory programme consists of:

- (1) three oral presentations or posters at (inter)national conferences,

¹ <https://www.ugent.be/doctoralschool/en/doctoraltraining/courses/specialistcourses>

² <https://www.ugent.be/doctoralschool/en/doctoraltraining/courses/transferableskills>

- (2) the three compulsory core courses Advanced Microeconomics, Advanced Macroeconomics and Advanced Econometrics and
- (3) a package of 15 to 30 ECTS specialist training courses organized or acknowledged by the Doctoral School³, and
- (4) three transferable skills trainings organized or acknowledged by the Doctoral School² and chosen from three out of four following clusters: 'communication skills', 'research and valorisation', 'career management' and 'leadership and self-management'.

The scope of the package of specialist training courses (3) should be determined at the Faculty Council when applying for the first enrolment for the doctorate based on a proposal by the supervisor. The specialist training courses are chosen from the list in Appendix 1 and with the approval of the supervisor.

Upon proper justification by the supervisor, a part of the package of specialist training courses can be alternatively fulfilled with courses not on the recognised list. The motivated request for alternative fulfillment (<https://oasis.ugent.be>) must receive a positive advice from the Research Cell from the Department of Economics and approval from the Faculty Council.

§7 Doctoral students preparing for a PhD in Economics who have obtained a two-year research master's degree or a MaNaMa degree in economics (or equivalent) will be granted a reduction on the programme of the *core courses* (2) obtained.

§8. PhD students preparing for a PhD in economics who have successfully completed one or more of the core courses (2) (at MaNaMa level in economics, or equivalent), but have not yet obtained a MaNaMa degree in economics (or equivalent), shall be granted a reduction in the programme of the core courses (2) that have been completed.

The supervisor submits a proposal of reduced programme to the Faculty Council for approval when applying for first enrolment for the doctorate, accompanied by a positive advice from the Research Cell of the Department of Economics.

§9. Doctoral students preparing a **PhD in Economics** or a **PhD in Business Economics** or a **PhD in Public Administration and Management** and who can rely on relevant (business) experience or knowledge may be granted exemption from above mentioned obligations based on previously acquired knowledge and skills.

The doctoral student and the supervisor submit a motivated request to the Doctoral School (<https://www.ugent.be/doctorschools/en/administration/exemption>). The Faculty Council can grant the exemption conditional upon positive advice from the Doctoral School. To decide, the Faculty Council also requests the advice of the Scientific Research Committee.

§10. For doctoral students who are preparing a **PhD in Business Administration**, besides holding a master diploma, it is also required that they have at least ten years of relevant professional experience with broad management experience. Before the application for admission can be submitted to the Faculty Council (see **Error! Reference source not found.**), an initial admission test will be organized by the Vlerick Business School. The doctoral training

³ <https://www.ugent.be/doctorschool/en/doctoraltraining/courses/specialistcourses>

programme for the Doctorate in Business Administration is provided in collaboration with the Vlerick Business School. The programme is composed as follows:

- (1) five specialist training courses organized or acknowledged within the DBA doctoral training programme in collaboration with the Vlerick Business School (see Appendix 2),
- (2) four oral presentations: two doctoral seminars and two presentations at the DBA conference and
- (3) at least two participations in personal growth activities organized or acknowledged within the DBA doctoral training programme in collaboration with the Vlerick Business School. These activities can include, for example, the development of teaching skills or presentation skills in scientific forums.

If well motivated by the doctoral advisory committee, one of the specialist training courses can be replaced by an alternative training activity (e.g. a specialist course abroad, a summer school instead of a course, etc.). The motivated application for alternative completion should receive a positive advice from the DBA Doctoral Committee, responsible for the doctoral training programme. In case of a positive advice, the proposed alternative can be included in the list of approved alternative courses (see [appendix 2](#)).

§11. Doctoral students who prepare a **PhD in Business Administration** and who have already acquired certain relevant knowledge or skills through previous courses or programmes may apply for exemptions from part of the doctoral training programme through the DBA Doctoral Committee responsible for this specific programme. The doctoral student and the supervisor submit a motivated request to the DBA Doctoral Committee (dba@ugent.be). The Faculty Council decides and can grant the exemption conditional upon positive advice from the DBA Doctoral Committee.

§12. Within a doctoral training program, a collaboration with the professional field (for example, a company, a government institution, the NBB or ECB, ...) can be recognized as a transferable skills course. To this end, the doctoral student must submit a description of the collaboration to the Doctoral School (<https://oasis.ugent.be>) for approval before the start of the collaboration. This description should include: (i) the concrete objectives of the collaboration, (ii) the duration of the collaboration (at least 10 working days) and (iii) the skills that will be acquired (with their assignment to one or more competence fields (clusters) of transferable skills imposed by the Doctoral School). Upon completion of the collaboration, the doctoral student submits this description with the professional partner's confirmation of its realization to the Doctoral School.

§13. Doctoral students may request partial or complete exemption from the doctoral training programme on the basis of a contract of cooperation with another university in the context of a joint PhD, or when their research is financed via a 'sandwich' scholarship supported by the Special Research Fund (BOF) of Ghent University, the Flemish Interuniversity Council (VLIR) or the Belgian Development Agency (BTC). The doctoral student and the administratively responsible supervisor submit a motivated request to the Doctoral School (<https://www.ugent.be/doctoralschools/en/administration/exemption>). The Faculty Council may approve the exemption following a positive recommendation from the Doctoral School. The Faculty Council makes the decision based on the advice of the Scientific Research Committee.

§14. When applying for the first enrolment for the doctorate at the Faculty Council, doctoral students may exceptionally request full exemption of the whole doctoral training programme. This request has to be substantiated by extensive motivation by the student and the proposed doctoral advisory committee. It must be made clear that crucial expertise and skills, which are normally acquired within the doctoral training programme by means of specialist courses or training in transferable skills, have already been acquired before by the doctoral student, for example in the form of relevant professional experience or expertise acquired in firms or research institutions. The Faculty Council decides, after consulting with the Scientific Research Committee or – in case of a Doctorate in Business Administration – with the DBA Doctoral Committee responsible for this specific doctoral training.

Article 4 Research Day

The Scientific Research Committee annually organizes a "Research Day" which doctoral students preparing for a PhD in Economics, a PhD in Business Economics or a PhD in Public Administration and Management are expected to attend. During their PhD programme, those doctoral students must present at least one poster and at least one paper about their doctoral research. Doctoral students preparing for a Doctorate in Business Administration are welcome to attend this "Research Day".

Each year a DBA conference is organized at Vlerick Business School. Doctoral students preparing a Doctorate in Business Administration are expected to present their work at least twice over the full term of their doctorate. All other FEB doctoral students are welcome to attend this day.

Article 5 Ombudsperson

On the recommendation of the representation of the assistant academic staff, the Faculty Council appoints from the professorial staff a permanent and a replacement ombudsperson for doctoral students (<https://www.ugent.be/eb/en/degree-students/rules-and-regulations/ombudsperson/ombudsperson.htm>). The ombudsperson offers doctoral students the permanent opportunity to report about their experiences with their supervisor(s), their doctoral advisory committee and the organization of the doctoral training programme. These conversations take place in all confidentiality. Doctoral students working within the department of the permanent ombudsperson turn to a replacement ombudsperson. The ombudsperson annually reports on his/her activities to the Faculty Council.

Article 6 Self-reflection report

Between 1 April and 30 June of the ongoing academic year, each doctoral student is to submit an annual self-reflection report to the doctoral advisory committee via <https://oasis.ugent.be>. Based on the research report within this self-reflection report, the doctoral advisory committee formulates advice on the doctoral student's progress in research and, if applicable, the doctoral training programme. In case of negative advice by the doctoral advisory committee, the faculty office decides whether or not the doctoral student is allowed to renew enrolment, after consulting the Scientific Research Committee.

Article 7 Doctoral dissertation consisting of different papers

§1. The different papers preferably share a common thread with respect to content. Doctoral students may choose differently and connect papers with different research subjects by using a common methodology (ex. game theory). The connection between the papers needs to be explained in the introduction of the doctoral dissertation.

§2. There is no minimum amount with respect to the number of papers. Quality resides over quantity. In case the PhD includes a limited number of papers, or the number of co-authors is disproportional, the doctoral advisory committee should explicitly motivate this working method in its final report.

§3. The FEB imposes no publication requirements or acceptance for publication with respect to the bundled papers. However, each and every paper should be of high quality and ready for publication (ready to be published in a journal with reading committee). The Examination Board judges the quality of the papers resulting in acceptance or rejection.

§4. With respect to papers written in collaboration with co-authors the doctoral advisory committee should identify and specify the contribution of the doctoral student. Similarly the Examination Board judges the value and quality of the contribution of the doctoral student.

§5. Each doctoral dissertation is to include a Dutch and English summary.

Article 8 Doctoral dissertation in book form

§1. The number of chapters may vary but the PhD should at least provide three high quality papers which can be published (in a journal with reading committee). The Examination Board judges the quality of the papers resulting in acceptance or rejection.

§2. In case parts of the doctoral research are conducted in collaboration with co-authors, the doctoral advisory committee is responsible for identifying and specifying the contribution of the doctoral student.

§3. Each doctoral dissertation is to include a Dutch and English summary.

Article 9 Submission of the PhD dissertation

The final advice of the doctoral advisory committee upon submission of the dissertation must clearly mention and motivate that the dissertation has been submitted and meets the regular level requirements. It can, for example, point to the concrete composition and completion of

the doctoral training programme, realizations in terms of working papers, publications, international conference participations, etc. (see FEB intranet for a template of this advice). The doctoral advisory committee also checks and states whether sufficient attention has been allocated to policy and/or practical implications in a final chapter.

The doctoral advisory committee also formulates a proposal for the composition of the Examination Board in accordance with the terms of the OERD. It indicates the general and specific roles of each member of the Examination Board, including for example be: chairman of the Examination Board, secretary of the Examination Board, expert in methodology, expert in implementation possibilities, field expert, expert in a subdiscipline of the study. The advice must be accompanied by a short presentation (no listing of publications) of the suggested members (a maximum of ten lines per member) and their contact information (address and email).

The end report of the doctoral advisory committee (<https://www.ugent.be/eb/en/information-for-staff/documents/end-report-doctoral-advisory-committee.docx>), including the advice and presentation of the members of the examination committee) must be sent to phd.eb@ugent.be accompanied by an electronic copy of the doctoral dissertation at least eight calendar days prior to the Faculty Council meeting.

Two AACSB Doctoral Competence Forms should be submitted. Immediately after the pre-defence, the doctoral student sends to phd.eb@ugent.be the extent to which competences were acquired on the basis of some statements (<https://www.ugent.be/eb/nl/medewerkers/onderzoek/documenten/form-doctoral-competences-phd-student.docx>). Immediately after the public defence, the examination committee sends to phd.eb@ugent.be the acquired competences of the PhD student on the basis of a number of propositions (<https://www.ugent.be/eb/nl/medewerkers/onderzoek/documenten/form-doctoral-competences-exam-commission.docx>).

The Examination Board consists of at least five and at most eight members who are qualified to vote, including the chairman and the secretary. The supervisor(s) also take(s) part in the Examination Board, but will not be qualified to vote. In addition to the regulations included in the OERD concerning appointing voting members, at least one voting member shall be female and at least one voting member shall be male.

Article 10

§1. The supervisor confers about the date and the location of the first meeting of the Examination Board (the pre-defence) with the Dean's Office before the Faculty Council meeting where the dissertation is submitted. From the list of all professors and full professors of the faculty (with a minimum appointment percentage of 80%), the Dean's Office proposes a chairperson based on a rotating schedule. The doctoral advisory committee includes the name of the chairperson in the end report. The Dean's Office sends the official invitations for this initial meeting. All members of the Examination Board receive this invitation, accompanied by the necessary instructions.

§2. After acceptance of submission by the Faculty Council, the doctoral student provides each member of the Examination Board a copy of his/her dissertation. The members of the Examination Board receive this copy at least four weeks prior to the pre-defence.

§3. The supervisor shall communicate the date and place of the first meeting of the Examination Board for the initial assessment of the dissertation (the pre-defence) to the Dean's Office, after discussing this with all members of the Examination Board (including the chairperson).

Article 11

Every member of the Examination Board who is qualified to vote (except the chairman) draws up a written evaluation of the doctoral dissertation. This evaluation consists of two parts. The first part ideally contains the member's main questions and comments on the dissertation. The second part is intended only for the Examination Board and contains the member's advice concerning admission to the public defence (possibly on condition of revision or improvement of certain parts). These written evaluations are collected by the secretary of the Examination Board. The secretary sends these collected reports to phd.eb@ugent.be. He/she also sends the first part of these reports to the PhD student, as stipulated by the OERD, allowing the student to prepare for the pre-defence. This has to take place at least five working days before the first meeting of the Examination Board (pre-defence).

Article 12

The pre-defence lasts for a maximum of five hours and has to take place in the language in which the dissertation was written. The Examination Board hears the student in the form of question and response. The doctoral student is not obliged to give a presentation of his/her research results at the beginning of the pre-defence, or before the discussion of every paper or chapter. The doctoral student and his/her supervisor(s) can decide their preferred approach by mutual consent.

Article 13

At the latest seven working days after the deliberation, the secretary of the Examination Board must send the deliberation report - as determined in the OERD - not only to the PhD student and the supervisor(s), but also to phd.eb@ugent.be. The deliberation report is compiled as stipulated in the OERD, but also contains a section regarding the jury members' opinions on the depth and the relevance of the "policy and/or practical implications" that the doctoral student refers to in the last chapter of the thesis (the nature of the doctoral subject must be taken into consideration).

If it concerns a UGent interdisciplinary PhD, the interdisciplinary character of the thesis should be explicitly mentioned in the individual reading reports, as well as in the reports on deliberations.

The supervisor has to settle a date for the public defence in consultation with the Dean's Office at the latest seven working days after the deliberation, if applicable taking into account the time needed for revision. The Dean's Office sends the official invitations for the public defence.

Article 14

§1. The doctoral student delivers the final version of his/her dissertation electronically to every member of the Examination Board not later than ten calendar days before the date of the public defence.

The doctoral student provides a printed copy of his/her doctoral dissertation for all members of the Examination Board. In addition, one copy should be delivered to the Dean's Office no later than five working days before the public defence.

§2. The doctoral student submits a one-pager and a short elevator pitch in video format (of 1 to 2 minutes) for a non-academic target group to the Dean's Office (see: <https://www.ugent.be/eb/en/information-for-staff/documents/procedure-sitting-doctoral-examination.pdf>). The one-pager and the elevator pitch should be accompanied by the form requesting permission for their public use by the FEB (https://www.ugent.be/eb/nl/doctoraatsstudent/toestemmingsformulier2022_01-nl-en).

§3. The doctoral student will submit the final electronic version of his/her doctoral dissertation to the Ghent University Academic Bibliography (<https://biblio.ugent.be>) not later than 10 calendar days after the date of the public defence.

Article 15

The procedure for the final phase of the doctoral dissertation is described in detail on the FEB intranet (<https://www.ugent.be/eb/en/information-for-staff/documents/procedure-sitting-doctoral-examination.pdf>).

APPENDIX 1

(approved by the Faculty Council on 26 June 2024)

1. LIST OF COURSES PHD IN ECONOMICS (DOCTORAAT IN DE ECONOMISCHE WETENSCHAPPEN)

1.1 Principles

Below you find the list of courses that are acknowledged by the Doctoral School for a PhD in Economics (doctoraat in de economische wetenschappen). The course package (so without the three oral presentations) has the following general structure:

Three compulsory core courses

Advanced Microeconomics, **Advanced Macroeconomics**, **Advanced Econometrics**. You can take these courses at our own faculty or equivalent – as indicated by the corresponding colors - at other universities.

A package of 15 to 30 ECTS specialist courses

With regard to the size of the package, the Doctoral Advisory Committee submits a proposal to the Faculty Council for approval upon first registration for the doctorate. Regarding the content of the package, PhD students can choose from the below list of courses recognized by the Doctoral School, subject to approval by the supervisor. The doctoral student has not yet taken these (or equivalent) courses.

For the recognition of courses that are not on the below list, an application must be submitted to the Doctoral School (via <https://oasis.ugent.be>).

1.2 List of courses organized or endorsed by the Doctoral School

1.2.1 Advanced Microeconomic Courses

UGent

- **Advanced Microeconomics: Game Theory and Asymmetric Information** (D. Van de gaer, 6 ECTS)

KU Leuven

- **Advanced Microeconomics II** (L. Lauwers, 6 ECTS)

UCLouvain

- **Advanced Microeconomics II: Game Theory and Information Economics** (F. Maniquet, 5 ECTS)
- Research seminar I: Microeconomics (E. Toulemonde, 5 ECTS)

ULB

- **Graduate Microeconomics I** (G. Kirchsteiger, 10 ECTS)
- **Graduate Microeconomics II** (L.P. Merlino, 5 ECTS)
- Graduate Microeconomics III (G. Kirchsteiger and P. Legros, 5 ECTS)

1.2.2 Advanced Macroeconomic Courses

UGent

- **Advanced Macroeconomics: Equilibrium and Dynamics** (F. Heylen and P. Van Rymenant, 6 ECTS)
- Quantitative Methods for Dynamic Economics (K. Önder, 6 ECTS)
- Advanced Topics in International Economics (K. Önder, 6 ECTS)
- Empirical macroeconomics: causal inference (G. Peersman and F. Smets, 6 ECTS, TO BE CONFIRMED)

KU Leuven

- Advanced Macroeconomics I (F. De Graeve, 6 ECTS)
- **Advanced Macroeconomics II** (M. Kobielarz, 6 ECTS)
- Advanced Topics in Macroeconomics & Policy (C. Pröbsting, 6 ECTS)
- Dynamic Methods (E. Ciscato, 6 ECTS)

UCLouvain

- **Advanced Macroeconomics I: Intertemporal Behavior and Business Cycles** (L. Pensieroso, 5 ECTS)
- **Advanced Macroeconomics II: Growth, Dynamics and Policy** (R. Oikonomou, 5 ECTS)
- Advanced Macroeconomics III: research seminar (T. Baudin & D. De la Croix, 5 ECTS)
- Dynamic Methods in Economics (R. Oikonomou, 5 ECTS)
- Advanced Course in Economics V: Macroeconomics expectations, theory and evidence (F. Monti, 5 ECTS)

ULB

- **Graduate Macroeconomics I** (F. Blasutto, 10 ECTS)
- **Graduate Macroeconomics II** (R. Kollmann, 5 ECTS)
- Graduate Macroeconomics III (??, 5 ECTS)
- Advanced Topics in Macroeconomics (H. Hesse, 5 ECTS)

UNamur

- Advanced Monetary Economics (R. Houssa and Y. Rychalovska, 5 ECTS)

1.2.3 Advanced Econometrics Courses

UGent

- **Advanced Econometrics: Non-linear Methods** (G. Everaert and B. Cockx, 6 ECTS)
- Causal Inference in Microeconometrics with Application to Program Evaluation (B. Cockx, 8 ECTS)
- Survival Analysis (E. Goetghebeur, 5 ECTS, MaStat)
- Causal Machine Learning (S. Vansteelandt, 5 ECTS, MaStat)
- Deep Learning (S. vanden Broucke, 6 ECTS, MaStat)
- Geostatistics (E. Van De Vijver, 5 ECTS, MaStat)
- Experimental Design (J. Meys and S. Luca, 3 ECTS, MaStat)
- Analysis of High Dimensional Data (L. Clement, 5 ECTS, MaStat)
- Big Data Science (D. Peralta Camara and E. Goetghebeur, 5 ECTS, MaStat)
- Natural Language Processing (C. Develder and T. Demeester, 6 ECTS, MaStat)

KU Leuven

- **Advanced Econometrics** (G. Dhaene, 6 ECTS)

UCLouvain

- **Advanced Econometrics I** (S. Van Bellegem, 5 ECTS)
- Advanced Econometrics II – Microeconometrics (W. Pariente, 5 ECTS)
- Advanced Econometrics II – Time Series Econometrics (S. Van Bellegem, 5 ECTS)

- Advanced Courses in Economics III (Big Data in Macroeconomics and Finance, F. Monti, 5 ECTS)
- Econometrics Workshop (E. San Martín Gutiérrez, 5 ECTS)

ULB

- **Graduate Econometrics I** (G. Van Bever, 5 ECTS)
- **Graduate Econometrics II** (P. Gobbi and A. Ramos, 5 ECTS)
- Graduate Econometrics III (D. Preinerstorfer, 5 ECTS)
- Graduate Statistics (T. Verdebout, 5 ECTS)
- Stochastic Models (M. Jansen and J.A. Garcia; 5 ECTS)
- Statistical Foundations of Machine Learning (G. Bontempi, 5 ECTS)
- Computational Statistics (M. Jansen, 5 ECTS)

1.2.4 Advanced courses in Banking and Finance

UGent

- Advanced Investment Analysis (M. Frömmel, 6 ECTS)
- Management of Financial Institutions (R. Vander Vennet, 6 ECTS)
- Financial Risk Management (F. De Jonghz, 6 ECTS)
- Advanced Asset Allocation (K. Inghelbrecht, 4 ECTS)
- Data Science for Finance and Insurance (K. Boudt, 4 ECTS)

1.2.5 Advanced courses in International Economics

KU Leuven

- Advanced Topics in International and Development Economics (H. Vandenbussche and S. Vanormelingen, 6 ECTS)

UCLouvain

- Advanced International Trade (J. Gomes and G. Vannoorenberghe, 5 ECTS)
- Advanced Courses in Economics I: Shift-shares and gravity (G. Vannoorenberghe, UCL, 5 ECTS)

ULB

- Advanced International Trade (P. Conconi, 5 ECTS)

1.2.6 Advanced courses in Labour Economics and Welfare

KU Leuven

- Advanced Topics in Labor & Public Economics (F. Vermeulen and E. Ciscato, 6 ECTS)
- Welfare Economics (Erik Schokkaert, 6 ECTS)

UCLouvain

- Advanced Labour Economics (V. Vandenberghe/M. Hungerbühler, 5 ECTS)
- Advanced Public Economics (J. Hindriks, 5 ECTS)
- Ethics and Social Choice (F. Maniquet, 5 ECTS)
- Population and Family Economics (F. Mariani, 5 ECTS)
- Advanced Courses in Economics II: Social preferences in economics (A. Panin, 5 ECTS)
- Advanced Courses in Economics IV: Experimental economics (A. Panin, 5 ECTS)

ULB

- Behavioral Economics (G. Kirchsteiger, 5 ECTS)

1.2.7 Advanced Courses in Environmental Economics

KU Leuven

- Environmental and Resource Economics (S. Rousseau, 6 ECTS)

1.2.8 Other Advanced Courses

UGent

- Multidisciplinary Research Tools to Study Work and the Labour Market (IDC UGent@Work, 3 ECTS, biannual – in every uneven year)

KU Leuven

- Advanced Topics in Industrial Organization (J. De Loecker, 6 ECTS)

UCLouvain

- Industrial Organization (J. Johannes, 5 ECTS)

ULB

- Advanced Industrial Organization (M. Nardotto, 5 ECTS)
- Development Economics (P. Verwimp, 5 ECTS)
- Dynamic Optimization (T. Demuynck, B. De Rock and L.P. Merlino, 5 ECTS)

2. LIST OF COURSES PHD IN BUSINESS ECONOMICS (DOCTORAAT IN DE TOEGEPASTE ECONOMISCHE WETENSCHAPPEN)

There is no generic list of specialist courses, but a generic principle. Courses can be acknowledged as a specialist course for the doctoral training programme in business economics if:

- The course is specifically intended for doctoral students, e. g. a specialist course organized by the doctoral school, a winter/summer school, the CIM/ICM exam, an EDEN doctoral seminar.
- The course is part of a 'Master-after-Master' programme.
- The course is programmed in the second Master year of a two-year Master-after-Bachelor programme.

For the recognition of other courses, an application must be submitted to the <https://webappsx.ugent.be/doctoralSchools/secure/phdStudent.jsf>.

Some examples of eligible courses are:

ACCOUNTING AND CORPORATE FINANCE

Topics in Corporate Finance (UGent Doctoral School, Luc Renneboog, Klaas Mulier, Tom Vanacker)

<https://www.ugent.be/eb/accountancy-fiscaliteit/en/research/corpfm/topics.pdf>

Financial Econometrics (Master of Banking and Finance, UGent, Gerdie Everaert)

Analysis of Variance (IPVW, Els Adriaens)

Applied Linear Regression (IPVW, Dries Reynders)

Multilevel Analysis for Grouped and Longitudinal Data (IPVW, Leoniek Wijngaards-de Meij)

Structural Equation Modelling I (IPVW, Yves Rosseel)

Structural Equation Modelling II (IPVW, Yves Rosseel)

R Intermediate Course (IPVW, Joris Meys)

Multivariate Statistics (IPVW, Olivier Thas)

Causal Inference (IPVW, Stijn Vansteelandt)

CEMFI Summer school Panel Data

CIM/ICM Exams

EDEN Doctoral Seminar Corporate Finance

EDEN Doctoral Seminar Corporate Finance II

EDEN Doctoral Seminar on Analytical Accounting Research

EDEN Doctoral Seminar on Case-based Research in Management Accounting

EDEN Doctoral Seminar on Empirical Financial Accounting Research

EDEN Doctoral Seminar on Methods, Techniques and Theories in Entrepreneurship and Innovation

EDEN Doctoral Seminar on Producing and Evaluating Knowledge in Management Accounting

EDEN Doctoral Seminar on Quantitative Empirical Research on Management Accounting

MARKETING

Advanced Methods of Marketing Research I (Master of Science in Marketing Analysis, UGent, Patrick Van Kenhove)

Advanced Methods of Marketing Research II (Master of Science in Marketing Analysis, UGent, Patrick Van Kenhove & Mario Pandelaere)

EDEN Doctoral Seminar in Consumer Behaviour
 EDEN Doctoral Seminar on Managerial Issues in Marketing
 EDEN Doctoral Seminar on Research Methods in Marketing
 Log Linear & Latent Class Analysis & Logistic Regression (Master of Quantitative Analysis in the Social Sciences, KU Leuven)
 Multilevel Analysis (Master of Quantitative Analysis in the Social Sciences, KU Leuven)
 Structural Equation Models (Master of Quantitative Analysis in the Social Sciences, KU Leuven)
 Unidimensional and Multidimensional Scaling (Master of Quantitative Analysis in the Social Sciences, KU Leuven)

BUSINESS INFORMATICS AND OPERATIONS MANAGEMENT

Advanced Regression Modelling (2nd year Master of Business Engineering, KU Leuven, Gerda Claeskens & Steffen Kühnel)
 Advanced Time Series Analysis (2nd year Master of Business Engineering, KU Leuven, Christophe Croux)
 Applied Optimisation (2nd year Master of Business Engineering, KU Leuven, Roel Leus & Frits Spijksma)
 Combinatorial Optimization and Local Search Techniques (2nd year Master of Business Engineering, KU Leuven, Erik Demeulemeester)
 Optimization: special topics (2nd year Master of Business Engineering, KU Leuven, Frits Spijksma)

MANAGEMENT, INNOVATION AND ENTREPRENEURSHIP

Analysis of Variance (IPVW, Els Adriaens)
 Applied Linear Regression (IPVW, Dries Reynders)
 Multilevel Analysis for Grouped and Longitudinal Data (IPVW, Leoniek Wijngaards-de Meij)
 Structural Equation Modelling I (IPVW, Yves Rosseel)
 Structural Equation Modelling II (IPVW, Yves Rosseel)
 R Intermediate Course (IPVW, Joris Meys)
 Multivariate Statistics (IPVW, Olivier Thas)
 Causal Inference (IPVW, Stijn Vansteelandt)
 EDEN Doctoral Seminar on Methods, Techniques and Theories in Entrepreneurship and Innovation
 EDEN Doctoral Seminar on Statistical Methods for Management Research
 European Entrepreneurship Colloquium
 Written exam CIM/ICM

Other examples of recently acknowledged courses:

Survey methodology (KU Leuven)
 CEMFI summer school Market Microstructure
 CEMFI Panel data econometrics
 IAOA Summer school on ontological analysis
 Eden doctoral seminar on Corporate Finance Theory and Evidence
 Eden doctoral seminar on Corporate Governance
 Combinatorial Optimization and Local Search Techniques (Master of Science in Advanced Business Studies, KU Leuven).
 UCL, LSTAT2360, Data Management I, programmation de base en SAS (1st and 2nd year Master Statistics)
 UA, Nieuwe Systeemontwikkelingsmethoden, 1st and 2nd year Master Business Engineering in Management and Information Systems.

APPENDIX 2

(approved by the Faculty Council on 8 November 2017)

1. LIST OF SPECIALIST COURSES DOCTORATE IN BUSINESS ADMINISTRATION (DBA) (DOCTORAAT IN HET MANAGEMENT)

1.1 List

- **Introduction to Academic Research**
research philosophy & epistemology, research design, literature search & reviews, research integrity & ethics, management of research projects, craft of academic writing, presenting your research
- **Quantitative Research I** (data collection)
survey research, experimental research, scale development, cross-cultural research, sampling, basics of statistical inference, descriptive statistics
- **Quantitative Research II** (data-analyze methods, tools & statistics)
basic (non)parametric statistics, analysis of variance, regression analysis, factor analysis, overview of modelling techniques
- **Qualitative Research**
qualitative research design, data collection approaches, data analysis, rigor in qualitative research, reporting and writing up qualitative research, presenting and visualising qualitative research
- **Organization Theory**
studying organizations: paradigms, approaches and methods (organizations as “systems”, economic theories of organizations, hybrid theories of organizations, political theories of organizations)

1.2 Alternative courses

Courses that qualify for the possible replacement of one of the above courses must meet at least one of the following conditions:

- The course is specifically intended for doctoral students, for example a specialized course organized by the Doctoral School of Ghent University or KU Leuven, winter/summer school, EDEN or EIASM doctoral seminars.
- The course is part of a Master-after-Master programme.
- The course is programmed in the second Master year of a two-year Master-after-Bachelor programme.

An application for recognition of an alternative course should receive positive advice from the Doctoral Committee DBA who is responsible for this specific doctoral training programme. If the proposed alternative course is not yet included in the list of approved alternative courses, the Faculty Council decides. The Faculty Council can approve this alternative course after a positive advice from the Doctoral Committee DBA.