

Teaching and Examination Regulations

Bachelor degree programmes ESE

Academic year 2021-2022

- **Economics and Business Economics**
- **Economics and Taxation**
- **Econometrics and Operations Research**

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Intended learning outcomes of the programmes [only in Dutch available]

Section 1 - General provisions

Article 1 - Applicability of the regulations

These regulations apply to the in CROHO (Centraal Register Opleidingen Hoger Onderwijs) registered bachelor degree programmes Economics and Business Economics, Economics and Taxation, and Econometrics and Operations Research, hereinafter called: the programmes. The programmes are organised by the Erasmus School of Economics of the Erasmus University Rotterdam, hereinafter to be referred to as: the School.

The double studies mentioned in section 10 of these regulations follow the rules of the programmes concerned, unless exceptions are made in these regulations.

These regulations are available in a Dutch and an English version. In case of doubt or ambiguity, the Dutch version of these regulations applies.

Article 2 - Definitions

In these regulations the following terms are understood to mean:

- a. the act: the Dutch Higher Education and Research Act;
- b. participation in study choice activities: the full completion of the activities provided by the School for each programme, in which prospective students are required to participate;
- c. student: anyone enrolled with the university for attending courses and/or taking the examinations and exams for a programme; for the further application of these regulations this also includes people enrolled as course participants;
- d. course participant: anyone enrolled with the university solely for attending courses and/or taking examinations for a programme;

- e. pre-master programme: the whole of education units that students with an education that in the opinion of the Examination Board is not equal to the preparatory bachelor programme follow with a view to obtaining an Admission Statement for the consecutive programme;
- f. study schedule: an overview published on the website of the School of all education units with the associated credits per programme;
- g. Bachelor-1, Bachelor-2, Bachelor-3: designation for all education units belonging to the Bachelor-1, resp. Bachelor-2 or Bachelor-3 education of a programme;
- h. credit (EC): unit in which the full student workload is expressed, whereby one credit equals 28 hours of study (in accordance with the European Credit Transfer System - ECTS);
- i. course guide: contains all information about the education units that are taught at the School in a specific academic year;
- j. academic year: the period of time that coincides with the period established in article 41 of these regulations;
- k. Rules and Regulations: the guidelines and instructions from the Examination Board as meant in article 7.12b of the act;
- l. exam: the total of all education units passed by the student that entitles the student to a bachelor degree;
- m. education unit: an independent part of an exam, for instance a course, seminar or thesis;
- n. course: education unit in which course-specific knowledge is taught;
- o. seminar: small-scale teaching form in which the practical application of theoretical knowledge is practiced by means of group and individual assignments;
- p. thesis: an individual final work in the form of a research report on a topic from the student's programme;
- q. degree: a degree is awarded when the minimum number of credits for the exam of a programme has been obtained as required according to the Teaching and Examination Regulations;
- r. degree certificate: documentary evidence that the exam has been passed, in accordance with article 7.11 subsection 2 of the act;
- s. examiner: the person who in accordance with article 7.12c of the act is authorised to hold examinations for the education unit concerned;
- t. examination: a written, oral or other test, including tutorials or a combination thereof, of the knowledge, understanding and skills of the student, as well as the assessment of the results of that test;
- u. written: recorded on paper or digitally;
- v. tutorial: a practical exercise, as meant in article 7.13 of the act, in one of the following forms:
 - attending a seminar,
 - writing a thesis or paper,
 - making an assignment,
 - completing an internship,
 - or participating in another educational learning activity aimed at acquiring the intended skills, like a Bachelor-1 or Bachelor-2 tutorial;
- w. resit: a written test scheduled in the examination period following the examination period of the last lecturing term of the academic year;
- x. lecturing term: the period of an education unit during which teaching is given. The lecturing term also includes the teaching-free period and possible holidays but not the examination period;
- y. examination period: the period during which written examinations can be scheduled. The examination period of an education unit usually follows the associated lecturing term. At the end of all lecturing terms and associated examination periods an examination period is scheduled for all resits;
- z. Thesis Workflow: the digital thesis supervision and assessment system of the School;
- aa. result: assessment of an education unit registered in OSIRIS;
- bb. partial result: the assessment of an partial test that is not registered in OSIRIS;
- cc. partial test: the examination taken during the lecturing term of an education unit, the assessment of which is taken into consideration when establishing the result of this education unit;
- dd. compensation regulation: for Bachelor-1 and Bachelor-2 this regulation regulates the option to compensate results between 4.5 and 5.4 for education units within clusters of education units established for that purpose;
- ee. bonus scheme: regulates the option to adjust the result upwards on account of extra achievements during a lecturing term.

Article 3 - Intended learning outcomes of the programmes

1. The qualities in the field of understanding, knowledge and skills as meant in article 7.13 subsection 2c of the law, that a student must have acquired upon completion of the program, will be elaborated in the intended learning outcomes of the programme.
2. The intended learning outcomes of the programmes are included in the Appendix to these Teaching and Examination Regulations.

Article 4 - Full-time / part-time

The programmes are full-time programmes.

Article 5 - The exams of the programmes

In each of the programmes only the final exam as meant in article 7.10a of the Act, hereinafter called the exam, can be taken.

Article 6 - Student workload

1. Each of the programmes has a student workload of 180 credits.
2. The student workload for education units is expressed in whole credits.

Article 7 - Language of teaching and examinations

1. With due regard for the code of conduct adopted by the Executive Board of the Erasmus University, the language for the programmes and the examinations is Dutch, unless the course guide specifies otherwise.
2. Participation in the educational programmes and examinations requires a sufficient command of the Dutch language. This requirement is met with when students:
 - a. are in possession of a pre-university education (Dutch VWO) certificate obtained in the Netherlands and the subject Dutch has formed part of the examination to obtain that certificate; or
 - b. have passed the test 'Dutch as a Second Language, level two' (NT-2, Examination II).
3. Participation in the educational programmes and examinations for the English language components of the programme requires a sufficient command of the English language. This requirement is met with when students:
 - a. are in possession of a Dutch pre-university education (VWO) certificate obtained in the Netherlands and the subject English has formed part of the exam to obtain that certificate; or
 - b. are in possession of a secondary education certificate, obtained from a recognised institution for secondary education in one of the following countries: Australia, Canada (with the exception of Quebec), New Zealand, South Africa, Ireland, the United Kingdom (with the exception of the Commonwealth countries and territories) or the United States of America; or
 - c. are in possession of a Dutch school-leaving (HBO) certificate for four-year higher professional education obtained in the Netherlands and the subject English has formed part of the exam to obtain that certificate; or
 - d. are in possession of a higher education certificate, obtained from a recognised institution for higher education in one of the following countries: Australia, Canada (with the exception of Quebec), New Zealand, South Africa, Ireland, the United Kingdom (with the exception of the Commonwealth countries and territories) or the United States of America; or
 - e. have passed one of the following tests:
 - internet-based TOEFL with a total score of at least 80;
 - IELTS with a total score of at least 6.0.

Article 8 - Evaluation of education

1. The Programme Director is responsible for ensuring the evaluation of education.
2. Education is evaluated as follows:
 - a. course evaluation - at the end of each education period students are asked to complete questionnaires on the courses followed during that period;
 - b. thesis and curriculum evaluation - upon completing their thesis students are asked to complete a questionnaire in the Thesis Workflow on the thesis supervision and the education programme followed.
3. The Programme Director informs the School Council and the Programme Committees of the outcomes of the evaluation, the amendments made as a result of this and the effect of the actual amendments. The School Council and the Programme Committees will handle information regarding performance of individual lecturers confidentially.

Article 9 - Assignment of consecutive master degree programme

Persons who have passed the exam for one of the programmes are admitted to the following consecutive master degree programmes of the School:

1. Bachelor Economics and Business Economics:
 - a. Master Economics and Business
 - b. Master Accounting, Auditing and Control
2. Bachelor Economics and Taxation:
 - a. Master Economics and Taxation
 - b. Master Economics and Business
 - c. Master Accounting, Auditing and Control
3. Bachelor Econometrics and Operations Research:
 - a. Master Econometrics and Management Science
 - b. Master Economics and Business.

Section 2 - Structure of the programmes

Article 10 - Composition of the exam

1. The exam of the programmes comprises the education units included in the study schedules with the stated student workload. These study schedules form an integral part of these Teaching and Examination Regulations and also include compensation regulations.
2. Bachelor-1 Economics and Taxation corresponds with Bachelor-1 of the bachelor programme for Economics and Business Economics. The Bachelor-1 Economics and Taxation also includes the education unit *Introductie Fiscale Economie*.
3. The descriptions of the education units mentioned in the first subsection, included in the course guide, are part of these Teaching and Examination Regulations with regard to learning objectives, forms of examination, admission requirements and study load.
4. If education units have a Dutch and an English version, both versions must have a similar type of education, identical forms of examination and identical examination assignments; in principle, the examinations of both versions are taken at the same time.
If the group size of an education unit gives cause for this, the Program Director may allow that for both versions examinations can be taken at different times. In that case, the examinations do not have identical but equivalent examination assignments.
5. In Bachelor-3 of the Economics and Business Economics and Econometrics and Operations Research programmes, the student chooses either a Minor from the offer as published on the website of the School, or follows an internship approved by the School or takes part in the exchange programme of the School. If the student chooses a Minor or an internship, he also follows a number of elective courses from the offer of the School.
6. In derogation of the previous subsection, the chairperson of the Examination Board under mandate of the Dean can grant a student permission at his request to enter a Minor or one or more courses followed at another school or university in the elective space of his study programme. The requirements that these courses must meet are published on the website of the School and form an integral part of these Teaching and Examination Regulations.

7. The transition regulations of the programmes as published on the website of the School, form an integral part of these Teaching and Examination Regulations

Article 11 - Stipulations for tutorials in the programmes

1. The course guide lists the tutorials that are offered, their form and in which education block they are taught.
2. Participation in tutorials of a bachelor course is only possible for students who have registered in time via SIN-Online for this tutorial. The registration period runs from four weeks to four working days before the start of the new lecturing term. After the regular registration period has ended, registration via OSIRIS is still possible: for a Bachelor-1 course (not for first-year students, see subsection 3), and a Bachelor-2 course via a web form on the website of the School, against payment of €20 in administrative charges per tutorial; for a Bachelor-3 course via the secretariat of the course concerned. Students are assigned to the tutorial group where at that time places are still available.
3. Participation in the tutorials for the Bachelor-1 education units for the programmes is compulsory. All first-year students will be registered for these tutorials by the School. Per education unit students must attend at least 70% of the tutorials. In derogation of this rule, students are allowed to be absent for a maximum of one meeting if there are less than four tutorial meetings. For the Bachelor-1 course Guidance of the bachelor programme Economics and Business resp. the bachelor programme Economics and Taxation, the Bachelor-1 Guidance (econometrics) course of the bachelor programme Econometrics and Operations Research and the Guidance (BSc2) course in year 1 of the Double bachelor BSc² Econometrics/Economics as meant in article 32 of these regulations, a 70% attendance requirement per education block applies for the group meetings and a 100% attendance requirement for the individual interviews.
4. In derogation of subsection 3, students of the Double bachelor BSc² Econometrics/Economics as meant in article 32, are not obliged to attend the tutorials of the Bachelor-1 education units Accounting, Introduction to Behavioural Economics, Philosophy and Organisation and Strategy of the IBEB programme in year 2 of the Double bachelor BSc² Econometrics/Economics.
5. Pre-master students and course participants are exempt from the obligation to attend 70% of the tutorials for Bachelor-1 education units.
6. Students who have obtained a valid (registered in OSIRIS) but insufficient result for a Bachelor-1 education unit (and therefore have complied with both the minimum obligation to attend and the examination participation), do not have to comply with the minimum obligation to attend 70% when they have to redo the same education unit in a following academic year.
7. In the lecturing term of an education unit that is concluded with a separate examination (excluding seminars), assignments can be handed in or partial tests can be taken until at the latest one week before the examination takes place.
8. For the education units Take-Off Bachelor and Introductie Fiscale Economie a 100% obligation to attend applies.
9. For the seminars a 100% obligation to attend applies.
10. Theses have to be written individually on a subject from the programme followed, under the supervision of an examiner in the field of that programme.
For Economics and Business Economics the thesis must be written on a subject from the major followed. This requirement does not apply to students who combine Economics and Business Economics with Economics and Taxation - they write the thesis in Economics and Taxation.
For Economics and Taxation the thesis must be written on a tax subject from the bachelor programme followed.
For Econometrics and Operations Research the thesis must be written on a subject from the major followed.
For the Double study Economics and Law the thesis must be written on a subject from the major seminar followed (students Economics and Business Economics resp. IBEB) or on a tax subject from the bachelor programme followed (students Economics and Taxation).
For the Double bachelor BSc² Econometrics/Economics the thesis must be written on a subject from the International Bachelor Econometrics and Operations Research major followed, and the thesis should include not only an econometric but also an economic analysis.
For the Double bachelor Economics and Philosophy the thesis must be written on a subject from the Bachelor Philosophy of Economics.

11. Students who have started their thesis in an academic year have to complete their thesis no later than 1 March of the following academic year. To this end, the student makes a plan for the progress of the thesis, which has to be approved by the supervisor. All communication between thesis supervisor and student about the progress of the thesis must be recorded in the Thesis Workflow. If it appears that the student has not completed his thesis by 1 March of the following academic year, the Programme Director will stop the supervision of this thesis and award the result 'fail'. In that case, the student will have to write a new thesis on a new subject with a new thesis supervisor.

Section 3 - Taking examinations

Article 12 - Sequence of examinations

1. Admission to the Bachelor-2 and Bachelor-3 courses of a programme is only available to students who have received a positive binding study advice of the programme concerned.
For students of the Double bachelor BSc² Econometrics/Economics applies that admission to the Bachelor-2 courses Finance 1, International Economics, Applied Microeconomics and Intermediate Accounting can take place after the student has received a positive binding study advice from the International Bachelor Econometrics and Operations Research programme or from the Econometrie and Operationele Research programme.
2. Admission to the seminars of Bachelor-3 and to Integratie Fiscale Economie is only available to students who have at least fully completed Bachelor-1 and Bachelor-2 for the programme concerned.
For students of the Double bachelor BSc² Econometrics/Economics applies that admission to the major seminars for IBEB can only take place after year 1 and year 2 of the programme have been passed, with the exception of the Philosophy / Philosophy of Economics course, and the International Economics or Applied Microeconomics courses have been passed; admission to the major seminars for the International Bachelor Econometrics and Operations Research can only take place after year 1 and year 2 of the programme have been passed, with the exception of the Philosophy / Philosophy of Economics course, and also year 3 has been passed, with the exception of the International Economics or Applied Microeconomics, Economics of the Welfare State, Game Theory and its Applications or Mathematical Economics (old) courses, the Simulation course and the major IBEB.
NB For admission to the Seminar in Quantitative Logistics, the Simulation course must be completed.
For students of the pre-master programme Accounting, Auditing and Control applies that admission to the major Seminar Financial Accounting and Reporting or the major Seminar Management Accounting and Control can only take place after at least two of the courses from the pre-master programme have been passed.
For students of the pre-master programme Economics and Taxation applies that admission to Integratie Fiscale Economie can only take place after at least two of the courses from the pre-master programme have been passed.
3. Admission to the internship for Econometrics and Operations Research is only available to students who have passed the Basiswerkcollege Case Studies Econometrie en Operationele Research.
4. Admission to the Bachelor thesis for Economics and Business Economics, IBEB resp. Economics and Taxation is only available to students after admission to the seminars of bachelor-3 or to Integratie Fiscale Economie has taken place.
Admission to the Bachelor thesis for Econometrics and Operations Research is only available to students who have passed the major seminar.
Admission to the Bachelor Thesis BSc² is only available to students who have passed both major seminars.
5. In case of personal circumstances the chairperson of the Examination Board under mandate of the Dean can allow an exception to the rules laid down in the preceding subsections of this article.

Article 13 - Periods and frequency of examinations; examination schedule

1. Twice per academic year examinations can be taken for the education units meant in article 10.
2. In derogation of the previous subsection tutorials and partial tests are offered only once a year. A partial test for which a minimum grade to be obtained is required (see article 15 subsection 5 of these regulations) is offered twice a year.

3. Per academic year students can take part in a maximum of three Bachelor-1 resits and three Bachelor-2 resits per programme.
In case of personal circumstances the chairperson of the Examination Board can allow an exception to this rule under mandate of the Dean.
4. Students who have registered for more than one programme can file a reasoned written request with the Examination Board to be allowed to take more than three resits for Bachelor-1 and/or Bachelor-2 courses.
5. Students can take written examinations for the programme for which they have been registered according to an examination schedule to be determined annually by the chairperson of the Examination Board under mandate from the Dean. Amendments to this examination schedule are determined by the chairperson of the Examination Board in separate decisions.

Article 14 - Provisions concerning registration for taking part in written examinations

1. Only the student who is registered in OSIRIS for a written examination which he is entitled to, can take part in that examination.
2. Students who are registered for a course or seminar in SIN-Online at the end of week 2 of an education block are automatically registered for the written examination of that course or (if applicable) seminar.
Students are required to check in week 5 of the course block whether they are registered in OSIRIS for the examination concerned. If a student is not registered for the written examination at that time, he must still register himself in OSIRIS within the registration period to take part in that examination.
3. Students who want to take part in a written resit of a course or (if applicable) seminar, must register themselves within the registration period in OSIRIS for taking part in that resit.
4. For students, the registration period for a written examination or resit runs from 26 working days to 5 working days before the examination or resit.
After the end of the regular registration period it is still possible to register for the examination concerned up to and including the day on which that examination was taken, ~~For this option~~ only against payment of €20 in administrative charges.

Article 15 - Form of the examinations

1. Bachelor-1 and Bachelor-2 examinations are in writing (closed book) and/or by practical exercise.
2. Bachelor-3 examinations are in writing and/or oral and/or by practical exercise.
3. The result of the whole of the partial tests can be included in the determination of the final result for Bachelor-1 or Bachelor-2 courses for a maximum of 30%.
4. It is not allowed to require a minimum grade to be obtained for partial tests of a Bachelor-1 or Bachelor-2 course.
5. A minimum grade to be obtained can be required for a partial test of a Bachelor-3 course. This grade should not be higher than 4.5.
6. A minimum grade to be obtained can be required for an examination of a course with partial tests. For Bachelor-1 and Bachelor-2 courses this grade should not be higher than 4.5. For Bachelor-3 courses this grade should not be higher than 5.5.
7. Oral examinations can never determine more than 50% of the result of an education unit.
8. Group assignments can never determine more than 50% of the result of a Bachelor-3 course.
9. Written examinations can never determine 100% of the result of a seminar.
10. Multiple-choice examinations are offered in at least two versions and have to number at least 40 questions.
11. For examinations with both open-ended and multiple-choice questions the minimum number of multiple-choice questions is determined by multiplying the percentage for which the multiple-choice questions determine the result for this examination by 40.
12. Any exceptions to the rules set out in the previous subsections have to be approved in advance by the Programme Director.
13. If the Programme Director decides that the method of examination as meant in the previous subsections will be different, he informs students about this at the latest two months before the examination date.
14. Bonus schemes have to be approved in advance by the Programme Director.

15. Students with a disability or chronic illness are offered the opportunity to adapt their studies, as far as reasonably possible, to the restrictions determined by the disability or chronic illness. These adaptations will be aligned as far as possible to the individual functional impairment of the student, but may not change the learning objectives of an education unit or the intended learning outcomes of a programme (see article 3 of these regulations).
Students may request an adjustment of an education unit or the exam of a programme, accompanied by a declaration of a competent authority, to the Examination Board.

Article 16 - Oral examinations

1. At an oral examination, each student is examined separately.
2. The oral examination is taken by an examiner in the presence of a second examiner.
3. Oral examinations are not public, unless the Examination Board has decided otherwise in a special case.

Section 4 - Examination results

Article 17 - Establishment, publication and registration of examination results; marking term

1. Immediately after an oral examination the examiner determines the result in writing and announces the result to the student.
2. The examiner establishes the result of a written examination as soon as possible and ensures that the result of that education unit is correctly submitted to the Student Administration - team Study Progress and Diploma Administration for registration in OSIRIS, at the latest 19 days after the day that the examination was taken (except for the period between Christmas Day and New Year's Day), on the understanding that in any case the result of the examination is known at the latest one week before the beginning of the resit period of the relevant programme phase.
In the event of force majeure the chairperson of the Examination Board under mandate from the Dean can allow deviation from these terms.
3. Each time that the term as meant in subsection 2 is exceeded, the Programme Director will charge a fine of € 2,500 to the organisational unit responsible for the teaching and examination of the education unit concerned.
4. If it concerns an education unit that plays a crucial role in establishing the Binding Study Advice as meant in article 29, the Examination Board in derogation of subsection 2 can request the examiner to deliver the result for that education unit to the Student Administration - team Study Progress and Diploma Administration for registration in OSIRIS earlier than 19 days after the day on which the written examination was taken.
5. The Student Administration - team Study Progress and Diploma Administration checks whether the marking term for the written examinations has been observed and informs the Examination Board in time when this term is exceeded.
6. The examiner establishes the result of a seminar as soon as possible and ensures that the result of that seminar is correctly submitted to the Student Administration - team Study Progress and Diploma Administration for registration in OSIRIS, at the latest 19 days after the lecturing term has ended (except for the period between Christmas Day and New Year's Day).
7. In good consultation, the examiner and a second assessor jointly determine the result for a thesis in the Thesis Workflow, at the latest 19 days after the student has submitted the final version (except for the period between Christmas Day and New Year's Day) and has completed the thesis-and-curriculum evaluation.
8. The examiner determines partial results as soon as possible and ensures that these are published at the latest before the beginning of the written examination.
9. The examiner immediately and correctly informs the Student Administration - team Study Progress and Diploma Administration about the result of an education unit to be registered in OSIRIS.
10. The Student Administration - team Study Progress and Diploma Administration ensures that the results of examinations, education units and examinations are correctly registered in OSIRIS within two working days after receipt. The Student Administration - team Study Progress and Diploma Administration also registers the certificates that have been awarded to students. No information about registered data is disclosed to any persons other than the student, the Examination Board, the

Executive Board of the Erasmus University, de Study Advisors, the Student Counsellors and the Examinations Appeals Board, with the exception of data about awarded certificates. The provisions in the preceding sentence can be deviated from with permission from the student.

11. The involvement of the Student Administration - team Study Progress and Diploma Administration as meant in the previous subsections is without prejudice to what the Executive Board of the Erasmus University has determined on the matter.
12. In very exceptional cases the Examination Board can cancel an examination or declare an examination invalid. In that case, the Examination Board in consultation with the responsible examiner(s), will determine the date on which the examination will be taken, preferably within two weeks after the original examination date.

Article 18 - Term of validity

1. Results of education units of a programme - including approved education units taken elsewhere and granted exemptions - are valid as long as the exam of the relevant programme has not been completed successfully.
2. Partial results are only valid during the academic year in which they have been obtained.

Article 19 - Right of inspection; inspection of old examination questions

1. Within four weeks after the result of a written examination has been published in OSIRIS, but at the latest one week before the resit, students are, on request, allowed to inspect their assessed work. The examiner can, with due regard for the provisions in the third subsection, make further arrangements for the practical implementation of this.
2. During the term mentioned in the first subsection students are allowed, on request, to inspect the questions and assignments of a written examination in which they have participated, and if possible the standards on the basis of which the assessment has taken place.
3. The examiner may decide that inspection together with the subsequent discussion as referred to in article 20 of the Rules and Regulations of the Examination Board takes place at a fixed location and time and announces this at the latest two working days before the inspection and subsequent discussion. Students who have been unable to attend this inspection and subsequent discussion due to force majeure are offered another opportunity by the examiner.
4. If they so desire, students meant in the first subsection are given an opportunity to make copies (or to have copies made) of their assessed work against payment during the term mentioned in the first subsection or at a location and time to be determined by the examiner.
5. The examiner ensures that at the latest in week 5 of the lecturing term a model examination including indications of the answers that the examiner considers representative of the material to be studied, the length and the form of the examination, is made available to students.

Article 20 - Retention period for written examinations and theses

1. The examination assignments and the norms for their assessment are kept (in paper or digital form) for seven years after the assessment.
2. The student's examination works and their assessment are kept (in paper or digital form) for two years after the assessment.
3. Theses and their assessment are kept (in paper or digital form) for seven years after the assessment.

Section 5 - Exemptions

Article 21 - Exemptions from education units

1. At the request of students, the Examination Board can grant exemptions from an education unit meant in article 10 on the basis of:
 - either a successfully completed education unit from another university programme in the Netherlands, provided that in the judgement of the Examination Board this unit is equal or comparable as regards content, student workload and level;

- or a successfully completed education unit from a higher professional education programme in the Netherlands, with the exception of the education units from the propaedeutic year, provided that in the judgement of the Examination Board this unit is equal or comparable as regards content, student workload and level;
 - or a successfully completed education unit from a higher education programme from outside the Netherlands, provided that in the judgement of the Examination Board this unit is equal or comparable as regards content, student workload and level.
2. The Examination Board asks the examiner(s) concerned for their advice before taking a decision.
 3. In principle, no exemptions are granted for education units from Bachelor-1 and for seminars and theses.

Section 6 - Exam results

Article 22 - The determination of the result of the exam

1. The Examination Board determines whether a student can be awarded a degree.
2. After all education units for the exam as meant in article 10 have been passed, the exam result is determined by the Student Administration - team Study Progress and Diploma Administration on behalf of the Examination Board, with observance of the Teaching and Examination Regulations of the programme and the Rules and Regulations of the Examination Board.

Article 23 - Degree

1. Students who have passed the exam are awarded the degree of 'Bachelor of Science in [degree programme name]' by the Executive Board of the Erasmus University.
2. The degree awarded is stated on the certificate.

Section 7 - Previous education

Article 24 - Alternative requirements for previous education deficiencies

1. Previous education deficiencies for the Economics and Business Economics and Economics and Taxation programmes as regards the subject of Mathematics are offset by a result of at least 7.5 for the Mathematics level 2 deficiency test to be taken for that purpose.
2. Previous education deficiencies for the Econometrics and Operations Research programme as regards the subject of Mathematics (Mathematics A but no Mathematics B) are offset by a result of at least 7.5 for the Mathematics level 3 deficiency test.
3. The requirement as regards a sufficient command of the Dutch language is fulfilled by successful completion of the 'Dutch as a Second Language test, level two' (NT - 2, Examination II).

Article 25 - Equivalent previous education

1. Article 24 similarly applies to holders of secondary or pre-university education certificates, either or not issued in the Netherlands, that by ministerial regulation are considered as at least equivalent to the Dutch pre-university education certificate.
2. Holders of other secondary or pre-university education certificates issued outside the Netherlands that in the country of origin allow access to university education can be granted exemption by the Executive Board of the Erasmus University from the previous education requirements meant in article 7.24, first subsection of the Act, provided that they fulfil the requirements mentioned in article 26 of these regulations as regards English and Mathematics.
3. Holders of a propaedeutic certificate from one of the Dutch HBO programmes Accountancy, Finance & Control, Logistics Management or Finance, Tax and Advice can be granted access by the Executive Board to the Economics and Business Economics or Economics and Taxation programme, provided they meet the following requirements: propaedeutic completed with a weighted average of at least 7.5 and a result of at least 7.5 for the Mathematics level 2 deficiency test as referred to in article 24 subsection 1 of this regulation.

4. Holders of a propaedeutic certificate from the Dutch HBO programme Applied Mathematics can be granted access by the Executive Board to the Econometrics and Operations Research programme, provided they meet the following requirements: propaedeuse completed with a weighted average of at least 7.5 and a result of at least 7.5 for the Mathematics level 3 deficiency test as referred to in article 24 subsection 2 of this regulation.
5. Holders of a final certificate from a recognized Dutch HBO programme or from a Dutch university bachelor or master programme can be granted access by the Executive Board to the Economics and Business Economics or the Economics and Taxation programme, provided they meet the following requirement: a result of at least 7.5 for the Mathematics level 2 deficiency test as referred to in article 24 subsection 1 of this regulation.
6. Holders of a final certificate from a recognized Dutch HBO programme or from a Dutch university bachelor or master programme can be granted access by the Executive Board to the Econometrics and Operations Research programme, provided they meet the following requirement: a result of at least 7.5 for the Mathematics level 3 deficiency test as referred to in article 24 subsection 2 of this regulation.

Article 26 - Colloquium doctum

1. The following requirements apply to the admission test as meant in article 7.29 of the Act, hereinafter called: the colloquium doctum:
 - For Economics and Business Economics, and Economics and Taxation:
 - a. Mathematics A (minimal 7.5)
 - b. Economics
 - c. Dutch
 - d. English
 - For Econometrics and Operations Research:
 - a. Mathematics B (minimal 7.5)
 - b. Economics
 - c. Dutch
 - d. English
2. The requirements set for the colloquium doctum are met by achieving the concerning Dutch VWO certificates.

Article 27 - Entrance requirements for holders of foreign certificates that have not been recognised as equivalent with the Dutch pre-university education certificate by ministerial regulation

Without prejudice to the requirements stated in article 24, third subsection, as regards the Dutch language, holders of certificates as meant in article 25, second subsection, can be admitted to the programmes by the Executive Board of the Erasmus University after they have fulfilled the requirements mentioned in article 26 as regards English and Mathematics.

Section 8 - Study choice activities

Article 28 - Study choice activities

1. Prospective students who for the first time apply for one of the programmes, are required to participate in the study choice activities of that programme.
2. The Executive Board can refuse the enrolment for the programme of a prospective student who without valid reasons did not participate in the study choice activities of the programme and/or applied after 1 May.
3. Further details of the study choice activities are published on the website of the School.

Section 9 - Student counseling and study advice

Article 29 - Student counseling

1. The Programme Director provides individual counseling for students enrolled in the programmes.
2. The Programme Director ensures that at the latest at the start of the education unit the lecturer responsible has published an overview of the lecturing and examination material in the course guide. The lecturer responsible has to indicate how the material for the education unit has been distributed across the lectures and tests (assignments, partial tests, examinations).
3. If books and/or workbooks are not yet available at the start of the education unit, the lecturer responsible makes a studiable alternative available in the first lecture.

Article 30 - The binding study advice

1. At the end of their first year of enrolment for one of the programmes all students receive a binding advice concerning the continuation of their programme. The advice is drawn up during an annual meeting of the Examination Board in conjunction with the bachelor coordinator concerned and is issued by the chairperson of the Examination Board under mandate from the Dean.
2. In derogation of subsection 1 students of the Double bachelor BSc² Econometrics/Economics also receive a binding advice concerning the continuation of their IBEB studies at the end of their second year of enrolment for the IBEB programme.
3. In derogation of subsection 1 students do not receive a binding study advice at the end of their first year of enrolment for the programme, if they have successfully unenrolled themselves before 1 February of that first year of enrolment. In that case students receive the binding study advice at the end of their second year of enrolment for the programme.
4. The chairperson of the Examination Board can attach a rejection to the study advice for the programme concerned on the basis of article 7.8b, third subsection of the Act, as long as the student has not yet passed all education units for Bachelor-1 of the programme. This rejection is only attached if students, with due regard for their personal circumstances, are not considered suitable for the programme, because their study results do not meet the requirements as meant in subsection 6, 7, 8 or 9.
The rejection applies to a term of three academic years.
5. Rejections for Economics and Business Economics also apply to Economics and Taxation and vice versa. This interchangeability also applies to the enrolment in a programme as meant in subsection 3.
6. The binding study advice is subject to the norm that at the end of the first year of enrolment all education units for Bachelor-1 of the programme have been obtained.
7. In derogation of the previous subsection the binding study advice for students as meant in subsection 3 is subject to the norm that at the end of the second year of enrolment all education units for Bachelor-1 of the programme have been obtained.
8. In derogation of subsection 6 the binding study advice for students of the Double study Economics and Law is subject to the norm that at the end of the first year of enrolment a minimum of 60 credits has been obtained for Bachelor-1 of the Economics and Business Economics, IBEB resp. Economics and Taxation and Dutch Law resp. Fiscal Law programmes, of which at least 48 credits (including the five compensated within a completed cluster) for Bachelor-1 of the Economics and Business Economics, IBEB resp. Economics and Taxation programme.
9. In derogation of subsection 6 the following norm applies to the binding study advice for students of the Double bachelor BSc² Econometrics/Economics:
 - a. at the end of the first year of enrolment all education units for Bachelor-1 of the International Bachelor Econometrics and Operations Research programme should have been passed; and
 - b. at the end of the second year of enrolment also the Academic Skills 2 (BSc2), Marketing, Accounting, Introduction to Behavioural Economics, Philosophy and Organisation and Strategy courses of the IBEB programme should have been passed.
10. During the first year of enrolment the Examination Board issues a preliminary study advice at least twice.
Further details of student counseling and study progress control during Bachelor-1 of the programme are published on the Website of the school.

11. Personal circumstances that are taken into account for the binding study advice are:
 - a. illness of the person concerned;
 - b. physical, sensory or other disabilities of the person concerned;
 - c. pregnancy of the person concerned;
 - d. special family circumstances;
 - e. membership of the University Council, the School Council, the School's management team, the management of the programme or the Programme Committee;
 - f. other circumstances as meant in article 2.1 of the 'Uitvoeringsbesluit WHW' [*Higher Education and Research Funding Decree*].

Students who as a result of personal circumstances can reasonably expect to incur a delay in their studies are obliged to inform the Study Advisor in time. The object of the notification is to limit any study delay as a result of the circumstances and, if necessary in the opinion of the Study Advisor, to draw up an individual study plan. Notifications are timely if made within four weeks after the beginning of a circumstance.

12. The binding study advice is in writing and includes:
 - a. the standard that applies to the student concerned, expressed in the number of credits to be obtained for Bachelor-1 of the programme;
 - b. the number of credits obtained for Bachelor-1 of the programme;
 - c. whether or not a rejection is attached to the advice, as meant in article 7.8b, third subsection of the Act;
 - d. if a rejection is attached to the study advice:
 - the notification that in the next three academic years the student cannot enrol as a student or as an extraneus for the programme;
 - advice on continuation of the study within or outside the Erasmus University;
 - e. the possibility of appeal with the Examinations Appeals Board and the term within which the appeal has to be lodged.

Section 10 - Double studies

Article 31 - Double study Economics and Law

1. In cooperation with the Erasmus School of Law of the Erasmus University the School has set up a Double study Economics and Law. This is a study path with which students can complete both a bachelor and master programme in economics and a bachelor and master programme in law in six years.

Economics and Business Economics resp. IBEB students may combine their programme with a Dutch Law or Fiscal Law programme, Economics and Taxation students may combine their programme only with a Dutch Law programme.
2. Students who have been admitted to the Double study Economics and Law are entitled to a number of extra facilities, including a customized binding study advice for the bachelor programme in Dutch Law or Fiscal Law, a more relaxed binding study advice in accordance with article 30 subsection 8 in the bachelor programme in Economics and Business Economics, IBEB or Economics and Taxation, study advice for this twin study from the Double study Economics and Law coordinator and a separate regulation to participate in the education of Bachelor-1 courses.
3. Students who have been admitted to the Double study Economics and Law are entitled to a number of exemptions which are published on the website of the School.
4. A student who under subsection 1 is not admitted to the Double study Economics and Law can still be admitted to the double study in the second year of enrolment at Erasmus University if he has completed the Bachelor-1 of Economics and Business Economics, IBEB or Economics and Taxation, or Dutch Law or Fiscal Law.
5. Students of the Double study Economics and Law who during their economics and/or law studies have obtained in an academic year fewer than 45 credits, can be refused access to the extra facilities of the Double study Economics and Law by the Double study Economics and Law coordinator. In applying this norm at least the personal circumstances referred to in article 30 subsection 11 of these regulations are taken into account.

Article 32 - Double bachelor BSc² Econometrics/Economics

1. The School has set up a Double bachelor BSc² Econometrics/Economics. This is a study path with which students can complete both the bachelor programme for the International Bachelor Econometrics and Operations Research and the IBEB bachelor programme in four years.
2. Students who have been admitted to the Double bachelor BSc² Econometrics/Economics are entitled to a number of extra facilities, including a customized binding study advice in the IBEB programme in accordance with article 29 subsection 9 sub b and access to selected BSc² tutorials.
3. A student who is not admitted to the Double bachelor BSc² Econometrics/Economics can still be admitted to the double bachelor in the second year of enrolment at Erasmus University if he has completed the Bachelor-1 of econometrics.
4. BSc² students for whom the student workload is afterwards found to be too high can switch to one of the two regular programmes.

Article 33 – Double bachelor Economics and Philosophy

1. In cooperation with the Erasmus School of Philosophy of the Erasmus University the School has set up a Double bachelor Economics and Philosophy. This is a study path with which students in four years can complete both one of the programmes and a bachelor programme Philosophy of Economics.
2. A student can be admitted to the Double bachelor Economics and Philosophy after he has completed the Bachelor-1 of one of the programmes with a pass.
3. Students who have been admitted to the Double bachelor Economics and Philosophy are entitled to a number of exemptions which are published on the website of the School.

Section 11 - Free bachelor exam

Article 34 - Bachelor exam with a student-selected programme

1. Subject to approval from the Examination Board students can compose their own programme from education units offered by the Erasmus University or other universities to which the bachelor exam for one of the programmes is attached.
2. The provisions of these Teaching and Examination Regulations similarly apply to a programme approved by the Examination Board as meant in the previous subsection.

Section 12 - Bachelor Honours Programmes

Article 35 - Bachelor Honours Class

1. First-year students who have passed all Bachelor-1 education units from lecturing terms 1, 2 and 3 of their programme with excellent results can apply for a place in the extracurricular Bachelor Honours Class after lecturing term 3. Students will be selected by a selection committee on the basis of a motivation letter, an essay and an interview. The number of available slots is established annually and published on the website of the School. Decisions by the selection committee are not open to appeal.
2. The enrolment procedure, content and assessment for the Bachelor Honours Class are published on the website of the School and form an integral part of these Teaching and Examination Regulations, without prejudice to the other provisions in these regulations.
3. Students who have passed the Bachelor Honours Class receive a certificate authenticated by the School in addition to their certificate.

Article 36 - Bachelor Honours Research Class

1. Second-year students who have passed all Bachelor-2 education units from lecturing terms 1, 2 and 3 of their programme with excellent results can apply for a place in the extracurricular Bachelor Honours Research Class after lecturing term 3. Students will be selected by a selection committee on the basis of a motivation letter, an essay and an interview. The number of available slots is established annually and published on the website of the School. Decisions by the selection committee are not open to appeal.

2. The enrolment procedure, content and assessment for the Bachelor Honours Research Class are published on the website of the School and form an integral part of these Teaching and Examination Regulations, without prejudice to the other provisions in these regulations.
3. Students who have passed the Bachelor Honours Research Class receive a certificate authenticated by the School in addition to their certificate.

Section 13 - Hardship clause

Article 37 - Hardship clause

In highly exceptional individual circumstances where application of one or more provisions from these Teaching and Examination Regulations would result in evidently unreasonable and/or unfair situations, the competent body can on the basis of a written and reasoned request from the person concerned deviate from said provision(s) in favour of the person concerned.

Section 14 - Appeal and objection

Article 38 - Appeal and objection

1. Decisions from the Examination Board resp. the examiners of the School can be appealed against at the Examinations Appeals Board of the Erasmus University under article 7.60 of the act.
2. Decisions from the other governing bodies of the School or of Erasmus University can be objected against at the Advisory Committee on Objections of the Erasmus University.

Section 15 - Concluding and implementation provisions

Article 39 - Amendments to these regulations

1. Amendments to these regulations are determined by the Programme Director in separate decisions.
2. No amendments are made that apply to the current academic year, unless the general interest of students would in all likelihood not be prejudiced as a result.
3. Furthermore, amendments cannot adversely influence decisions with respect to students taken by the Examination Board under these regulations.

Article 40 - Publication

The Dean ensures proper publication of these regulations, of the Rules and Regulations laid down by the Examination Board and of amendments to these regulations.

Article 41 - Entry into force

These regulations become effective on 30 August 2021 and remain valid up to and including 28 August 2022.

Thus laid down by order of the Dean of the Erasmus School of Economics on 8 July 2021, with the consent of the School Council and the Programme Committees, after hearing the advice from the Examination Board, the Programme Committees and the School Council.

Appendix

Intended learning outcomes of the programmes

Economics and Business Economics

Knowledge and understanding

1. Reproducing and interpreting

Students possess in-depth knowledge of the field of economics and business economics.

At the end of the BSc Economics and Business students are able to:

- 1.1 Reproduce and interpret concepts in key areas of microeconomics: choice and decision-making; information and uncertainty; household and firm behaviour; organisations and markets; allocation and welfare; behavioural economics.
- 1.2 Reproduce and interpret concepts in key areas of macroeconomics and international economics: macro-economic models; economic growth; business fluctuations; money and interest rates; public finance; trade; international finance.
- 1.3 Reproduce and interpret concepts in key areas of meso-economics: market structure and performance; firm strategy; firm objectives and performance; regulation and industrial policy.
- 1.4 Reproduce and interpret concepts in key areas of business economics: financial accounting; management accounting; corporate finance; financial markets; marketing and organisation.
- 1.5 Reproduce and interpret key concepts of methodology, philosophy of economics and history of economic thought.
- 1.6 Reproduce and interpret concepts in key support areas: mathematics, statistics and ICT.
- 1.7 Demonstrate advanced knowledge in at least one of the areas under 1.1 – 1.5.

2. Ability to analyse and explain

Students analyse and explain phenomena and issues in the economics of government and business by using their knowledge of the theories and methods of economics and business economics.

At the end of the BSc Economics and Business students are able to:

- 2.1 Apply economic theories, research methods and techniques and statistics to analyse economic issues, using relevant academic literature.
- 2.2 Analyse, explain and evaluate and advise about the economic policies pursued by companies, governments and institutions.
- 2.3 Analyse, explain, evaluate and advise about current situations based on the history, philosophy and ethics of the field.

Applying knowledge and understanding: research

3. Formulating a goal and defining a problem statement

Students formulate problem statements and research questions based on scientific concepts and theories.

At the end of the BSc Economics and Business students are able to:

- 3.1 Restrict and define research in the area of economics and business economics.
- 3.2 Specify, formulate and operationalise research questions.

4. Choosing a research set-up

Students select a research set-up appropriate to the research question.

At the end of the BSc Economics and Business students are able to:

- 4.1 Select and use a relevant qualitative and/or quantitative research method.

5. Choosing a research method

Students select or create one or more suitable methods for data collection and analysis.

At the end of the BSc Economics and Business students are able to:

- 5.1 Use mathematical and statistical methods commonly employed in the field.
- 5.2 Efficiently and effectively use databases for data collection, through the Internet or libraries.

6. Drawing conclusions

Students make statements about the initial problem statement based on the results of their research.

At the end of the BSc Economics and Business students are able to:

- 6.1 Analyse the collected data and draw conclusions regarding the problem statement, based on these data.
- 6.2 Point out limitations of the research.

Applying knowledge and understanding: management

7. Formulating policy recommendations

Students propose solutions for issues of a (business) economics nature, based on relevant concepts and theories from the field.

At the end of the BSc Economics and Business students are able to:

- 7.1 Diagnose policy problems of an economic nature.
- 7.2 Formulate policy advice based on research findings, aimed at solving concrete (economic) problems for companies and government institutions.

8. Taking strategic action

Students propose strategic actions to be taken by companies or a government based on their analysis of phenomena and issues in economics.

At the end of the BSc Economics and Business students are able to:

- 8.1 Identify potential bottlenecks in the implementation of policy recommendations.
- 8.2 Estimate the effects of policy recommendations based on reason.
- 8.3 Take into account situational factors in the implementation of the policy recommendations.

Making judgements

9. Abstraction

Students select relevant research questions and information from a complex reality and are able to get to the heart of the matter in a given context.

At the end of the BSc Economics and Business students are able to:

- 9.1 Distinguish between main and secondary issues, within a complex context.
- 9.2 Acknowledge the contextual dependence of main and secondary issues.

10. Analytical approach

Students draw logical conclusions based on the given assumptions.

At the end of the BSc Economics and Business students are able to:

- 10.1 Deduce conclusions from given premises.
- 10.2 Extrapolate logical consequences from observable facts.

11. Research-oriented approach

Students base statements about reality on reliable data.

At the end of the BSc Economics and Business students are able to:

- 11.1 Mould a policy issue into a research question.
- 11.2 Emphasise the relationship between the main question and conclusions in a research study.

12. Interpretation frameworks

Students use different interpretation frameworks in making statements about reality.

At the end of the BSc Economics and Business students are able to:

- 12.1 Distinguish between relevant interpretation frameworks in a given problem situation.
- 12.2 Reinterpret problem situations by using various interpretation frameworks.

Communication

13. Cooperation

Students cooperate professionally and effectively in teams, acknowledging each other's interests, position and values.

At the end of the BSc Economics and Business students are able to:

- 13.1 Cooperate with fellow students in task-driven groups of various structures (monodisciplinary or multidisciplinary).
- 13.2 Deal with relationships and tensions between different people in the group.

14. Communication

Students communicate effectively, both in writing and verbally, with people and groups of a diverse nature.

At the end of the BSc Economics and Business students are able to:

- 14.1 Present information, ideas, research results and policy recommendations both in writing and in verbal form.
- 14.2 Distinguish between main issues and secondary issues in written and verbal communication.
- 14.3 Structure an argument correctly and consistently.
- 14.4 Make choices about the style and form of presentation, depending on the nature of the occasion, the audience and the intended goals.

Learning skills

15. Self-direction

Students show themselves to be responsible, academically trained professionals who have the learning skills to engage in a continued degree programme that assumes a high level of autonomy.

At the end of the BSc Economics and Business students are able to:

- 15.1 Take a stand on economic developments and related research. Moreover, students should be able to defend that position.
- 15.2 Take responsibility for their personal learning process.

Economics and Taxation [only in Dutch]

Kennis en inzicht

1 Weergeven en interpreteren

Studenten beschikken over grondige kennis van de (bedrijfs-) economische wetenschap en grondige kennis van en inzicht in de structuur van belastingwetgeving en belastingstelsels.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

- 1.1 Weergeven en interpreteren van de belangrijkste concepten van de micro-economie: keuze en besluitvorming; informatie en onzekerheid; gedrag van huishoudens en bedrijven; organisaties en markten; allocatie en welzijn; gedragseconomie.
- 1.2 Weergeven en interpreteren van de belangrijkste concepten van de macro-economie en internationale economie: macro-economische modellen; economische groei; conjunctuur; geld en rentepercentages; overheidsfinanciën, handel; internationale financiële systemen.
- 1.3 Weergeven en interpreteren van de belangrijkste concepten van de meso-economie: marktstructuur en –resultaten; bedrijfsstrategie; bedrijfsdoelen en –resultaten; regulering en industrieel beleid.
- 1.4 Weergeven en interpreteren van de belangrijkste concepten van de bedrijfseconomie: financial accounting; management accounting; corporate finance; financiële markten; marketing en organisatie.
- 1.5 Weergeven en interpreteren van de concepten van de methodologie, filosofie en ethiek van het economisch denken.

1.6 Weergeven en interpreteren van concepten uit de belangrijkste ondersteunende vakgebieden: wiskunde, statistiek en ICT.

1.7 Weergeven en interpreteren van mogelijke belastingstelsels en de structuur van de Nederlandse belastingwetgeving.

1.8 Weergeven en interpreteren van de verschillende belastingwetten in Nederland, de beginselen van het Europese belastingrecht en van het internationale belastingrecht gericht op de voorkoming van grensoverschrijdende belemmeringen en discriminaties en van dubbele belastingheffing.

2 Analyseren en verklaren

Studenten kunnen fiscale wetgeving en jurisprudentie toepassen en interpreteren, mede in hun maatschappelijke context en in het bijzonder in hun (sociaal-) economische samenhang. Met de verworven kennis kunnen zij de economische effecten van belastingheffing op ondernemersgedrag en handelen van burgers analyseren en verklaren. Tevens kunnen zij effecten van economische ontwikkelingen op de fiscaliteit onderkennen.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

2.1 Toepassen van economische theorieën, onderzoeksmethoden en -technieken en statistiek op problemen van fiscaal-economische aard, gebruikmakend van relevante wetenschappelijke literatuur.

2.2 Analyseren, verklaren en beoordelen van het gevoerde fiscaal-economische beleid van bedrijven, overheden en organisaties.

2.3 Analyseren, verklaren en beoordelen van actuele situaties vanuit de historische en wetenschappelijke ontwikkeling van het fiscale vakgebied.

Toepassen kennis en inzicht

3 Formulering van doelstelling en probleemstelling

Studenten formuleren een probleemstelling op een fiscaal-economisch deelterrein, uitgaande van wetenschappelijke concepten en theorieën.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

3.1 Definiëren van een probleemstelling op het terrein van de fiscale economie.

3.2 Concretiseren, formuleren en operationaliseren van onderzoeksvragen.

4 Keuze van onderzoeksopzet

Studenten kiezen een onderzoeksopzet die aansluit bij de vraagstelling.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

4.1 Selecteren en gebruiken van een relevante en kwalitatieve en/of kwantitatieve onderzoeksmethode.

5 Keuze van onderzoeksmethode

Studenten kiezen één of meer geschikte methoden om gegevens te verzamelen en te analyseren

Studenten zijn aan het einde van de bachelorfase in staat tot het:

5.1 Kunnen hanteren van gangbare mathematische en statistische methoden en methoden om kwalitatieve informatie te verwerken.

5.2 Efficiënt en effectief gebruikmaken van databanken voor het verzamelen van gegevens, met behulp van internet of bibliotheken.

6 Trekken van conclusies

Studenten doen uitspraken over de initiële probleemstelling op basis van de gevonden resultaten.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

6.1 Analyseren van de verzamelde gegevens en het trekken van conclusies met betrekking tot de onderzoeksvraag, op basis van de verwerkte gegevens.

6.2 Reflectie op uitkomsten en conclusies, gelet op de beperkingen van het onderzoek en de onderzoeksmethoden.

7 Ontwerpen van beleidsadviezen

Studenten doen voorstellen waarmee fiscaal-economische vraagstukken kunnen worden opgelost op basis van economische concepten en theorieën.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

7.1 Diagnosticeren van fiscaal-economische beleidsvraagstukken.

7.2 Op basis van onderzoeksresultaten beleidsadviezen formuleren, gericht op de oplossing van concrete fiscale (fiscaal-economische) vraagstukken van bedrijven of overheden.

8 Samenhang en interactie

Studenten leggen verbanden tussen de economie/bedrijfseconomie en de belastingwetgeving.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

8.1 Combineren van verschillende inzichten uit de economie, bedrijfseconomie en de fiscale wetgeving. Zij analyseren en verklaren op basis daarvan het handelen van individuen, gezinnen, ondernemingen en de overheid.

Oordeelsvorming

9 Vermogen tot abstraheren

Studenten selecteren relevante onderzoeksvragen en informatie uit een complexe samenhang en kunnen deze doorgronden binnen een gegeven context.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

9.1 Onderscheiden van hoofd- en bijzaken in een complexe context.

9.2 Onderkennen van de contextuele afhankelijkheid van hoofd- en bijzaken.

10 Analytische grondhouding

Studenten trekken logische conclusies uit gegeven aannames. Zij beoordelen hun denkbeelden op hun interne consistentie, empirische validiteit en kracht en stellen deze desgewenst bij en tonen zich hierin creatief.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

10.1 Deduceren van conclusies uit gegeven premissen.

10.2 Maken van logische gevolgtrekkingen uit waarneembare feiten.

11 Onderzoekende grondhouding

Studenten baseren uitspraken over de werkelijkheid op betrouwbare gegevens.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

11.1 Herleiden van een beleidsprobleem tot een onderzoeksvraag

11.2 Benadrukken van de relatie tussen de vraagstelling en conclusies van een onderzoek.

12 Interpretatiekaders

Studenten gebruiken verscheiden gezichtspunten bij het doen van uitspraken over de werkelijkheid.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

12.1 Onderscheiden van relevante interpretatiekaders in een gegeven probleemsituatie.

12.2 Herinterpreteren van probleemsituaties door gebruik te maken van verschillende interpretatiekaders.

Communicatie

13 Samenwerking

Studenten werken professioneel en doelgericht samen in teams en erkennen het belang, de positie en waarden van anderen.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

13.1 Samenwerken met medestudenten in taakgerichte groepen van verschillende structuur (mono- of multidisciplinair).

13.2 Omgaan met de (spannings)relaties tussen verschillende individuen in de groep.

14 Communiceren

Studenten communiceren, zowel schriftelijk als mondeling, effectief met personen en groepen van uiteenlopende aard.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

14.1 Presenteren van informatie, ideeën, onderzoeksresultaten en beleidsadviezen in zowel schriftelijke als mondelinge vorm.

14.2 Onderscheiden van hoofd- en bijzaken in de mondelinge en schriftelijke communicatie.

14.3 Consistent en overtuigend argumenteren.

14.4 Maken van keuzes over de vorm en stijl van presenteren, afhankelijk van de gelegenheid, het publiek en de doelstellingen.

Leervaardigheden

15 Zelfsturing

Studenten profileren zich als een verantwoordelijke en academisch opgeleide professional, die over de leervaardigheden beschikt om een vervolgopleiding aan te gaan, waarvoor een hoge mate van autonomie nodig is.

Studenten zijn aan het einde van de bachelorfase in staat tot het:

15.1 Innemen en verantwoorden van de eigen positie t.a.v. economische ontwikkelingen en onderzoek daarnaar.

15.2 Nemen verantwoordelijkheid voor het eigen leerproces.

Bachelor Econometrics and Operations Research

Knowledge and understanding

1. Subject-specific knowledge and skills

Students possess in-depth knowledge of econometrics and mathematical decision-making theory and the core courses of these disciplines and are able to apply the corresponding techniques.

At the end of the BSc Econometrics and Operations Research students are able to:

1.1 Master key concepts of relevant mathematical and statistical theories: mathematical proofs, calculus, linear algebra, probability theory, statistical inference and testing and asymptotic theory.

1.2 Master concepts in key areas of micro, meso, macro and business economics: behaviour of consumers and companies, information and uncertainty, behaviour of markets, market structures, microeconomic and macroeconomic models, economic growth, finance, marketing and logistics.

1.3 Master key concepts of informatics, in particular programming: imperative programming, data structures, object-oriented programming and algorithms; skilfully use a modern programming language.

1.4 Master key concepts of econometrics: modelling, modelling cycle, regression, linear and nonlinear models, models for time series, cross-sectional, binary, duration and multivariate data.

1.5 Master key concepts of operations research: deterministic and stochastic optimisation, linear and nonlinear optimisation techniques and simulation.

1.6 Master key concepts of methodology and philosophy of economics.

1.7 Demonstrate advanced knowledge in applying or linking econometric or operations research related concepts and methods as in 1.4 and 1.5 to or with one of the economics areas in 1.2.

2. Ability to analyse and explain

Students analyse and explain phenomena and issues in the economics of government and business by using their knowledge of the theories and methods of econometrics and operations research.

At the end of the BSc Econometrics and Operations Research students are able to:

- 2.1 Apply econometric and operations research related concepts, theories and research methods and techniques on economic issues, using relevant academic literature.
- 2.2 Analyse, explain, evaluate and advise about the economic policies pursued by companies, government and institutions.
- 2.3 Analyse and explain the functioning of the economy or parts of it (financial markets, macroeconomic processes, consumer behaviour and logistics).
- 2.4 Analyse, explain, evaluate and advise about current situations based on the philosophy of the field.

Applying knowledge and understanding

3. Formulating a goal and defining a problem statement

Students formulate (business) economic, econometrics or decision-making problem statements based on relevant scientific concepts and theories.

At the end of the BSc Econometrics and Operations Research students are able to:

- 3.1 Restrict and define research in the field of (business) economics, econometrics and/or operations research.
- 3.2 Specify, formulate and operationalise research questions.

4. Choosing a research set-up

Students select a research set-up appropriate to the research question.

At the end of the BSc Econometrics and Operations Research students are able to:

- 4.1 Select and use a relevant quantitative or, if applicable, qualitative research method.
- 4.2 Construct a suitable model based on mathematics, statistics, econometrics and/or operations research for analysing and solving the research question.

5. Choosing methods for data collection and processing

Students select or create one or more suitable methods for data collection and analysis.

At the end of the BSc Econometrics and Operations Research students are able to:

- 5.1 Apply and motivate common econometric and operations research techniques to real-life data from (financial) markets, companies, the government and science.
- 5.2 Compare different econometric and operations research models and techniques based on their merits for solving the problem in question.
- 5.3 Efficiently and effectively use databases for data collection, through the Internet or libraries or based on self-collection

6. Drawing conclusions

Students make statements about the research question based on the results of their research.

At the end of the BSc Econometrics and Operations Research students are able to:

- 6.1 Analyse the collected data by econometric and operations research techniques and draw conclusions regarding the research question based on the analysis.
- 6.2. Reflect on the outcomes and conclusions based on the strengths and weaknesses of the data and the applied methods.
- 6.3 Execute the modelling cycle and make adjustments to the model based on the obtained results.

7. Formulating policy recommendations

Students propose solutions for economic issues based on relevant concepts and theories from the field of econometrics and operations research.

At the end of the BSc Econometrics and Operations Research students are able to:

- 7.1 Formulate policy advice based on research findings, aimed at solving concrete (economic) problems for companies and government institutions.
- 7.2 Effectively report the advice and its motivation, including uncertainties and possible bottlenecks in the implementation.

8. Coherence and interaction

Students make connections between the different courses.

At the end of the BSc Econometrics and Operations Research students are able to:

8.1 Combine different perspectives and techniques from econometrics and operations research and its core courses.

8.2 Assess the quality of econometric or operations research concepts and methods for economic theory and practice.

Making judgements

9. Abstraction

Students select relevant research questions and information from a complex reality and can get to the heart of the matter in a given context.

At the end of the BSc Econometrics and Operations Research students are able to:

9.1 Distinguish between main and secondary issues within a complex framework.

9.2 Present and discuss the primary aspects of a research problem by an econometric or operations research model.

9.3 Abstract reasoning in a mathematical or statistical context.

10. Analytical approach

Students draw logical conclusions based on the given assumptions.

At the end of the BSc Econometrics and Operations Research students are able to:

10.1 Extrapolate logical consequences from observable facts (deduction).

10.2 Draw empirical conclusions from observed data (induction).

10.3 Mould a policy problem into a research question.

10.4 Independently formulate econometric and decision-making models, and analyse their relevant mathematical and statistical features.

11. Research-oriented approach

Students base statements about reality on reliable data.

At the end of the BSc Econometrics and Operations Research students are able to:

11.1 Formulate conclusions that result from data and models with regard to the research question.

11.2 Being able to relate one event to another.

11.3 Being able to develop, motivate and apply new methods.

12. Interpretation frameworks

Students use different interpretation frameworks when making statements about reality.

At the end of the BSc Econometrics and Operations Research students are able to:

12.1 Recognise and distinguish between relevant interpretation frameworks in a given problem situation.

12.2 Reinterpret problem situations by using various interpretation frameworks.

Communication

13. Cooperation

Students cooperate professionally and effectively in teams, acknowledging each other's interests, position and values.

At the end of the BSc Econometrics and Operations Research students are able to:

13.1 Cooperate with fellow students in task-driven groups of various structures (monodisciplinary or multidisciplinary).

13.2 Cooperate on projects with people without a background in econometrics and operations research.

14. Communication

Students communicate effectively both in writing and verbally with people and groups of a diverse nature.

At the end of the BSc Econometrics and Operations Research students are able to:

14.1 Present research, research results and policy recommendations both in writing and in verbal form.

14.2 Distinguish between main issues and secondary issues in verbal and written communication.

14.3 Structure an argument correctly and consistently.

14.4 Formulate mathematical and statistical problems in a correct way.

14.5 Make choices about the style and form of presentation, depending on the nature of the occasion, the audience and the intended goals.

15. Self-direction

Students show themselves to be responsible, academically trained professionals who have the learning skills to engage in a continued degree programme that assumes a high level of autonomy.

At the end of the BSc Econometrics and Operations Research students are able to:

15.1 Take a stand on economic developments and related research. Moreover, students should be able to defend that position.

15.2 Take responsibility for their personal learning process.