

DTU Study Guidance

Study planning for new MSc students

Who are we?

Johanne

Study advisor

Maria

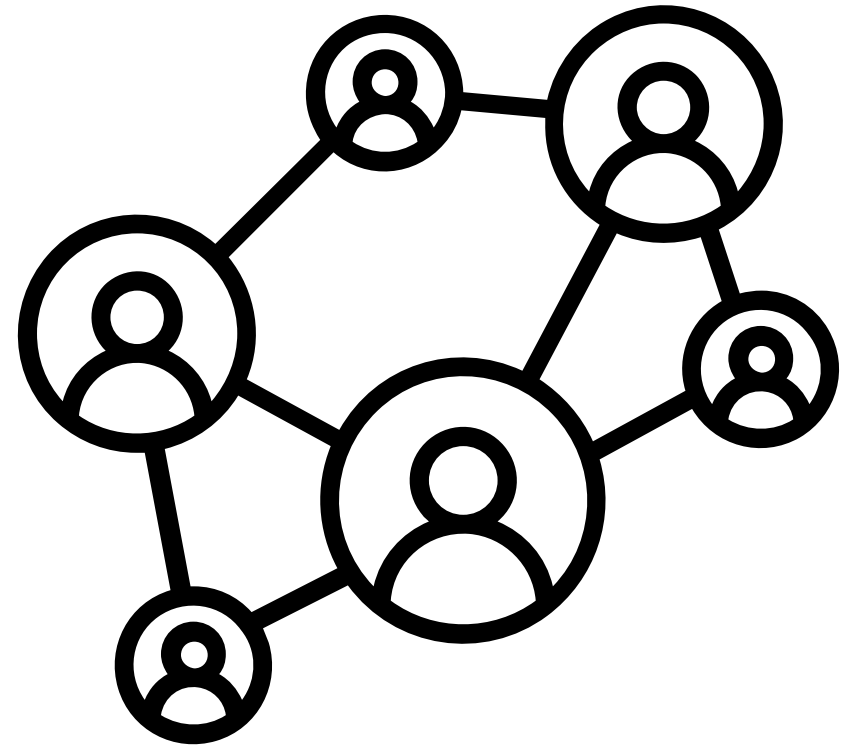
Study advisor

M.Sc. in Applied Chemistry

Mathilde

Study advisor

B.Sc. in Mechanical Engineering



Agenda

12:00-12:15

Rules and requirements for your studies



12:15-12:40

Study planning



12:40-13:00

Questions

Rules and requirements for your studies



Study activity requirements and deadlines

! The study activity requirement

- ✓ 5 ECTS in a continuous period of one year

! Maximum duration of studies

- ✓ Estimated time of study + 1 year
- ✓ For MSc 2 + 1 years.

! SU

! VISA



[DTU Inside → Study rules → Study activity requirements and deadlines](#)

Rules regarding exam

3

You are entitled to 3 exam attempts in each course or project



You use 1 exam attempt if you have registered for the exam and do not pass – this rule also apply if you do not attend or are late.



You can withdraw from your exam within the de-registration deadlines, without using an exam attempt.

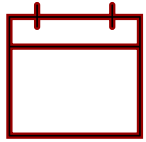
[DTU Inside → Study Rules → Exam → Registration deadlines for courses and examinations.](#)



If you do not withdraw from your exam within the deadline the course is binding.

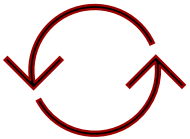
[DTU Inside → Study Rules → Teaching → Binding courses.](#)

Rules regarding exam



There are designated periods for re-exams. Pay attention to courses with assignments and part exams.

[DTU Inside → Study Rules → Exam → Re-exams.](#)



You can also take a failed course again.

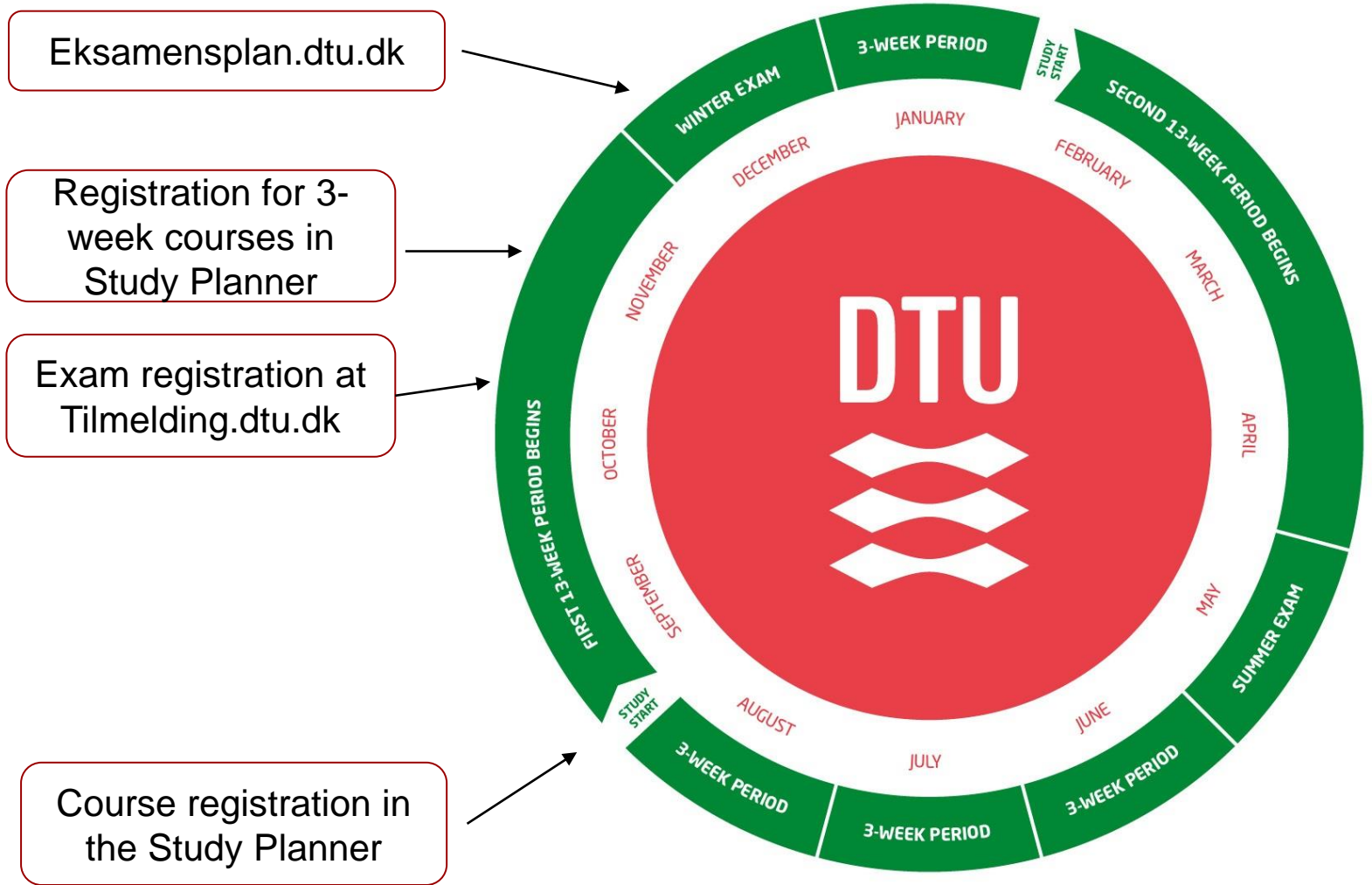


You **do not** use an exam attempt, if you are ill and provide documentation in time

Study planning



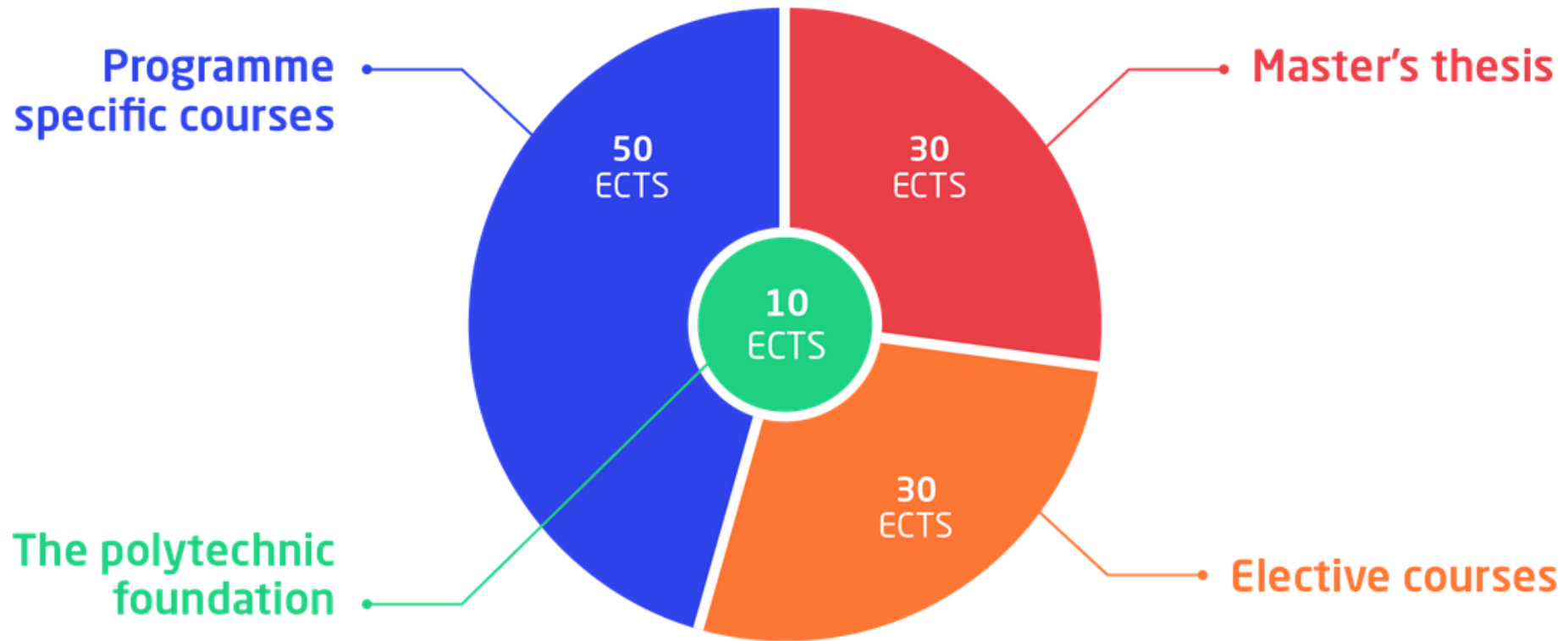
A year at DTU



DTU Inside → Study Rules → Exam → [Registration deadlines for courses and examinations.](#)

OBS: Remember to check the dates every semester as they can change

Programme provision



Study planning

The Study planner www.studieplan.dtu.dk

Why is it important to make a study plan?

- Overview and direction
- It is necessary to register for courses

You can plan with these considerations:

- Requirements in your curriculum
- Fellow students and own interests
- Academic progression/development
- Study lines/focus areas
- Time and place

DTU Inside → Study Rules → [My programme specification](#)

Year of study 1 September 2023 - 31 August 2024				
1. Term				
13 weeks autumn 2023	Placement	Status	ECTS	⌵
<input type="checkbox"/> 22000 Acoustic Communication	E1	ⓘ	10	✕
<input type="checkbox"/> 34840 Fundamentals of acoustics and noise control	E3A	ⓘ	5	✕
<input type="checkbox"/> 34870 Electroacoustic transducers and systems	E2	ⓘ	10	✕
Registration period:			Register/Withdraw	
January 2024	Placement	Status	ECTS	
<input type="checkbox"/> 42500 Innovation in Engineering (Polytechnical Foundation)	January		5	✕
			ⓘ Register/Withdraw not open	
2. Term				
13 weeks spring 2024	Placement	Status	ECTS	⌵
<input type="checkbox"/> 22003 Auditory signal processing and perception	F1		10	✕
<input type="checkbox"/> 34850 Architectural acoustics	F4		10	✕
			ⓘ Register/Withdraw not open	
June/July/August 2024	Placement	Status	ECTS	
<input type="checkbox"/> 34847 Innovation Camp	July		5	✕
<input type="checkbox"/> 34848 Advanced Topics in Microacoustic Transducers and Systems	August		5	✕
			ⓘ Register/Withdraw not open	
ECTS in this year of study: 60				

Study Planning – what to be aware of?

www.kurser.dtu.dk

- Courses with prerequisites:
 - ! Recommended prerequisites
 - ! Mandatory prerequisites
- When is the course offered?
 - Once or twice per year?
 - 13-week, 3-week or both?

	Monday	Tuesday	Wednesday	Thursday	Friday
8-12	F1A 30786	F3A 30740	F5A 42490	F2B	F4B
13-17	F2A	F4A	F5B 42490	F1B 30760, 30786	F3B 30740
18-22		F7			

! Does the course schedule overlap?

Registration deadlines: Study Rules → Teaching → [Registration deadlines for courses and examinations](#)

Course information

Danish title	Instrumentel kemisk analyse
Language of instruction	English
Point(ECTS)	5
Course type	MSc Offered as a single course General competence course, MSc. Eng., Advanced and Applied Chemistry Spring F2B (Thurs 8-12)
Schedule	
Location	Campus Lyngby
Scope and form	The course is primarily lectures and group work on the subjects from lectures. The examination is oral.
Duration of Course	13 weeks
Date of examination	F2B, Exam over 2 days: F2B and either the day before or after
Type of assessment	Oral examination
Aid	All Aid
Evaluation	7 step scale , external examiner
Previous Course	26316
Not applicable together with	26316.12231
Mandatory Prerequisites	General Chemistry
Recommended prerequisites	26301/26428/27022 , The basic course of chemistry or biotechnology must be passed.
Participants restrictions	Minimum 4 Maximum: 50
Responsible	Jens Øllgaard Duus , Lyngby Campus, Building 207, Ph. (+45) 4525 2451 , jduus@kemi.dtu.dk
Course co-responsible	Jens Jørgen Sloth (Primary contact person) , Lyngby Campus, Building 201 , jjsl@food.dtu.dk
Department	26 Department of Chemistry
Department involved	23 National Food Institute 28 Department of Chemical Engineering
Registration Sign up	At the Studyplanner

General course objectives

The students obtain fundamental competences in chemical and biochemical analysis and the apparatus that is used for the analyses, furthermore gives insight into sample preparation. The course supply competences in technology of analysis, instrumental analysis, quality assurance, applied technology.

Learning objectives

A student who has met the objectives of the course will be able to:

- Describe the principles of operation of the instruments, HPLC, GC, MS, AAS and ICP
- Describe the principle components of MS instruments
- From a list of molecules decide which instruments are well suited for identification and analysis of these molecules
- Identify the type of samples that may be applied to specific instruments
- List the advantages and drawbacks of the analytical protocols (LC, GC, MS and biosensors)
- Propose a method of sample preparation that is required for the analytical method
- Describe the basic principles of separation on columns of high performance liquid chromatograph
- Describe the basic principles of separation by Size Exclusion Chromatography (SEC) and how different detector combinations and calibrations can be applied for polymer analysis.
- Give basic insight in quality assurance and statistical tests

Content

Virtually everybody in chemistry and biochemistry is working with various analytical methods that are applied to production, quality control and research. Many important decisions in the society are executed on the basis of results of chemical analysis. Examples comprise additives to food products, drinking water, waste water, quality of pharmaceuticals, nutrients and forensics. Process control and oil exploration constitute other areas of research, where chemical analysis and biochemical analysis are important.

A wide variety of technologies are treated at the course, such as sample preparation, spectrometric technologies and automatic technologies. An introduction is given to chromatography comprising gas chromatography (GC) and high performance liquid chromatography (HPLC). The separation technologies are hyphenated with detectors, such as mass spectrometers, photo multipliers (diode array), electrodes and light scattering. Measurements by other spectrometric methods and analysis by biosensors also has widespread application.

Inorganic chemistry:

The subjects include ISE, coulometry, stripping analysis, optical methods, turbidimetry, ICP-AES and ICP-MS. Automatic methods.

Organic chemistry: Methods for the separation and characterization of organic molecules including characterization of polymers

Course Literature

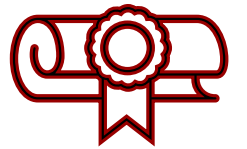
Daniel C. Harris, Quantitative Chemical Analysis, 9th ed.

Study Planning – final projects

! Are there courses you must finish before starting your final project?

! You can commence your thesis, **when you lack no more than 15 ECTS credits** besides your thesis.

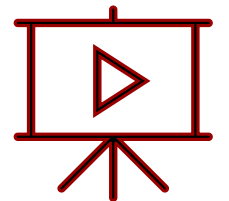
[DTU Inside → Study Rules → Final projects → Master's thesis](#)



You can add the thesis to the Study Planner by creating a placeholder course called "Thesis"

The Study Guidance gives a presentation on 'Final projects' every semester

[DTU Inside → Academic offers and Guidance → Study Guidance → Events Spring 2023](#)



Resources when planning your studies



Rules regarding your studies:

- Study rules
- Study announcements
- Registration deadlines for courses and exams



My programme specification

- [DTU Inside](#) → [Study Rules](#) → [My programme specification](#)



The Course Base

- www.kurser.dtu.dk
- Contains course descriptions etc. as we saw earlier



The Study planner

- www.studieplan.dtu.dk
- For registration of courses and study planning

Placeholder course in the Study Planner

Placeholder course for the Thesis to comply with the 120 ECTS credits in the Study Planner

The image illustrates the process of adding a placeholder course to a study plan. It shows three stages:

- Initial Basket:** A list of courses including 01018 Discrete mathematics 2: algebra, 01418 Introduction to Partial Differential Equations, 02203 Design of Digital Systems, 02226 Networked Embedded Systems, 02234 Current Topics in System Security, and 02289 Algorithmic Techniques for Modern Data Models. The 'Create' button is circled in red.
- Create activity dialog:** A modal window where 'Activity type' is set to 'Final projects', 'Name of activity' is 'Thesis', and 'Number of ECTS' is 30. 'Cancel' and 'Save' buttons are visible.
- Final Basket:** The same list of courses as above, but with a new entry 'Thesis' (represented by an orange square icon) added at the bottom.

Red curved arrows indicate the flow from the initial basket to the dialog box, and then from the dialog box to the final basket.

If in doubt you can find videotutorials at the top right corner on the Study Planner

[Videotutorials](#)

Do you still have questions?

Come by the Study Guidance!

- Study planning and rules
- Exemption, leave of absence, credit transfer
- Complaints
- Someone to talk to – we are bound to confidentiality

Opening hours and booking:

[DTU Inside → Academic offers and guidance → Study Guidance → Opening hours](#)

Email: studvejl@adm.dtu.dk

Call us: +45 45 25 11 99

Drop-in guidance:
Lyngby, Building 101A
Ballerup, Room D1.01

Other useful contacts

Student Counseling Service – www.srg.dk

- Free counselling for students having difficulties
 - Events at DTU regarding preparing for exams, project writing etc.
-

The Career Centre

- Skill assessment, CV feedback, company contacts, and more

www.dtu.dk/english/Education/Student-Guide/Guidance-and-counselling/Career-counselling

SU Office – su@adm.dtu.dk

- Questions regarding SU, student loans, and work and youth cards (for transport)
-

SPS Unit

- Help for students with functional impairments

www.dtu.dk/english/Education/Student-Guide/Guidance-and-counselling/Special_needs

Questions?

