DTU Study Guidance

Study planning for new MSc students

Agenda

Study rules

Study planning

Questions

Study rules

Study activity requirements and deadlines

Study activity requirement of 5 ECTS

- 5 ECTS in a continous period of one year

Maximum duration of studies

- Prescribed length of programme + 1 year
- MSc 2 + 1 years.

SU

- Rules are different than DTU's rules

Visa

- Be mindful of rules and restrictions of your visa status

Exam rules

- You are entitled to 3 exam attempts in each course or project.
- You use an exam attempt if you have registered for the exam and do not pass – this also applies if you do not attend the exam or is late for the exam.
- You can withdraw from your exam within a set deadline and thus avoid making use of an exam attempt.
- If you do not withdraw from your exam before the deadline and use an exam attempt, the course becomes binding even though the course may be an elective.

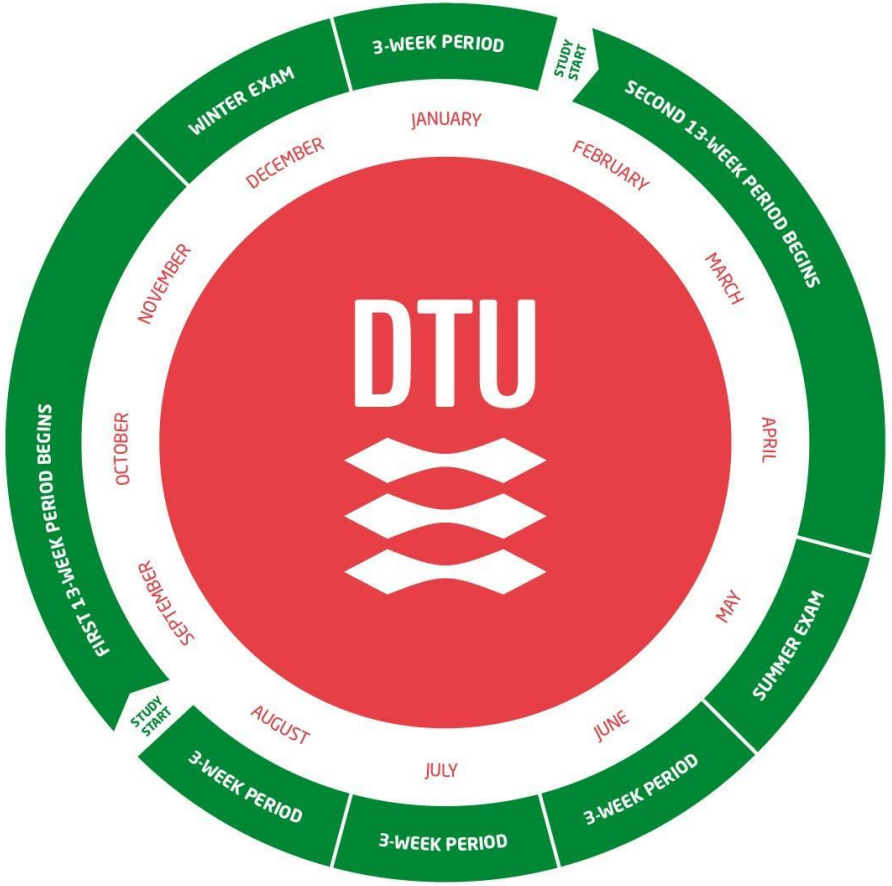
Exam rules

- There are designated periods for re-exams. Pay attention to courses with assignments and part exams.
- You can also take a failed course again.
- You do not use an exam attempt if you are ill and submit documentation in time.

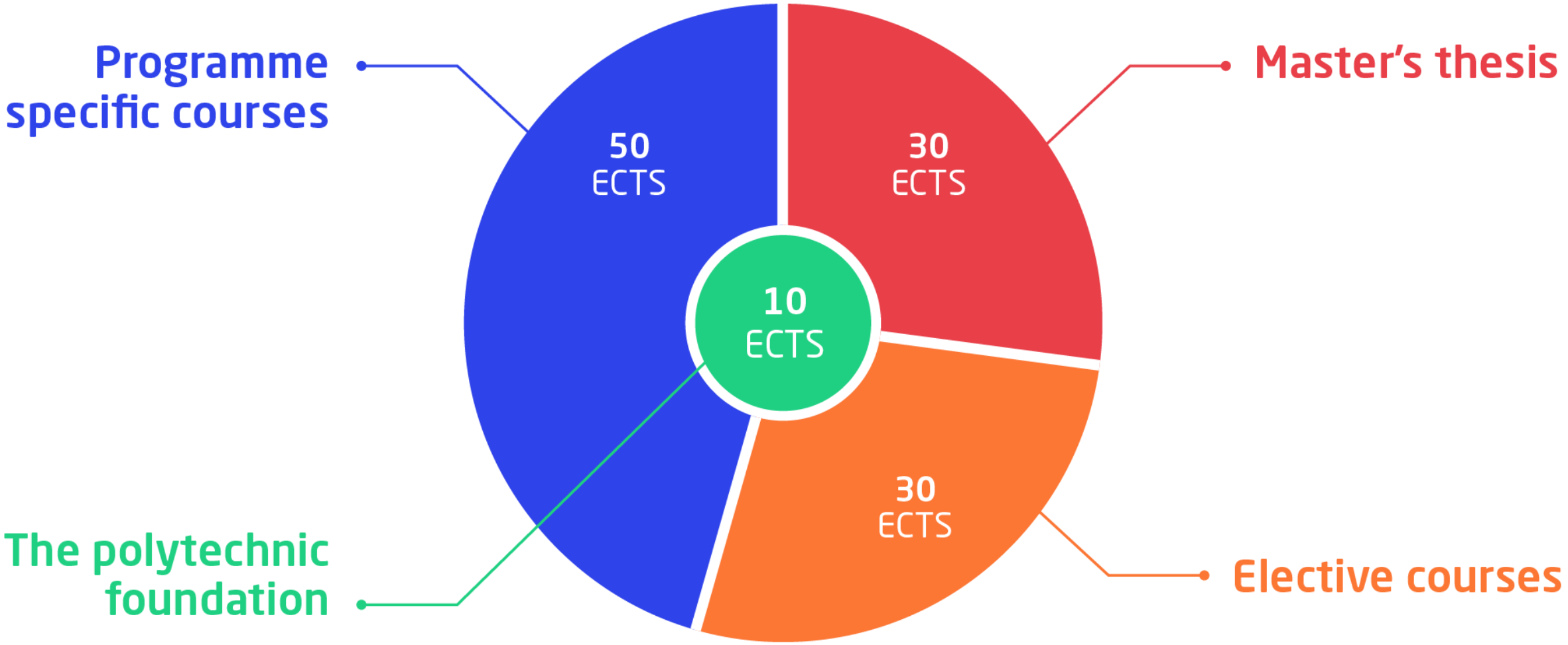
Study planning

A year at DTU

- Two 13-week periods with ordinary exams in December and May
- Four 3-week periods in January, June, July and August.
- Course registration via the Study Planner
- Exam registration via tilmelding.dtu.dk
- Overview of exams via eksamensplan.dtu.dk



Programme structure



Study planner

The Study planner at www.studieplan.dtu.dk

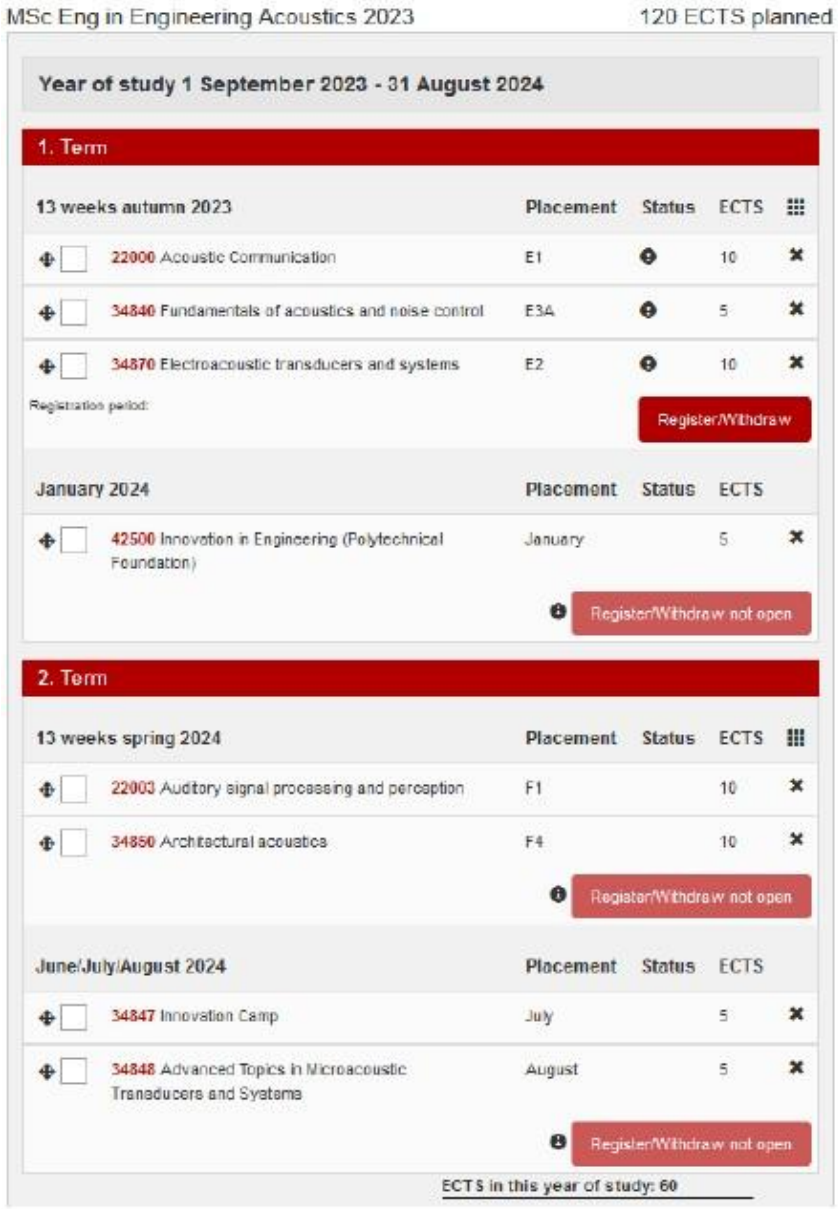
Why is it important?

- 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



Study planning – what to be aware of?

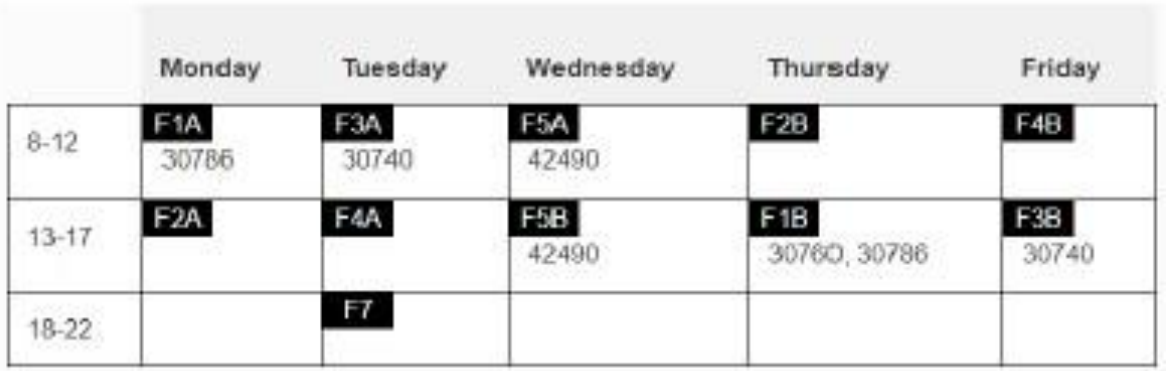
www.kurser.dtu.dk

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			

Do the courses overlap?

Registration deadlines: DTU inside → Study Rules → Teaching → Registration deadlines for courses and examinations

42014 Environmental and Resource Economics

2024/2025

Course information

Danish title	Miljø-og resourceøkonomi
Language of instruction	English
Point(ECTS)	5
Course type	MSc Offered as a single course General competence course (MSc), Sustainable Energy Programme specific course (MSc), see more Programme-specific course (MSc), Sustainable Energy Systems Technological specialization course (MSc), Environmental Engineering Technological specialization course (MSc), Technology Entrepreneurship Technological specialization course (MSc), Transportation and Logistics Elective course (B Eng), Fisheries Technology
Schedule	F7 (Tues 18-22)
Location	Campus Lyngby
Scope and form	Lectures 1½- 2 hours + 2 hours exercises per week
Duration of Course	13 weeks
Date of examination	F7
Type of assessment	Written examination and reports The written examination consists of multiple-choice questions, accounting for 75% of the final grade. The report is about solving a project case study, accounting for 25% of the final grade.
Exam duration	Written exam: 2 hours
Aid	All Aid - no access to the internet : All aids - no internet access during written examination
Evaluation	7 step scale , internal examiner
Previous Course	42631
Academic prerequisites	Good knowledge of quantitative analysis from courses like "02323 Introduction to Statistics" or "02418 Statistical modelling: Theory and practice"
Responsible	Jacob Ladenburg , Jlad@dtu.dk
Course co-responsible	Marcella Veronesi , Lyngby Campus, Building 424, Ph. (+45) 4677 5110 , mver@dtu.dk
Department	42 Department of Technology, Management and Economics

General course objectives

General objective: To give students a general understanding of:
a) How economic analysis can be used in addressing sustainability and environmental problems
b) How economic tools can be used in a sustainable optimum resource management
c) How the three pillars of sustainability (economy, environment, society) are related

Learning objectives

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

- Discuss how we can conceptualize an optimal use of environmental goods and services
- Understand environmental policy instruments
- Conduct economic analysis to find optimum non-renewable resource allocation over generations
- Explain and debate how environmental valuation methods work
- Understand and qualify the role of discount rate in conducting cost-benefit analysis of environmental policies
- Understand the economics of pollution
- Understand and assess economics of climate change
- Understand and discuss the differences in private and social costs of wind energy
- Understand and discuss the links between population growth, food production and the environment
- Use economic analysis and estimate optimum renewable resource management
- Understand and relate to economics of water use and water quality

Content

1: Introduction: Overview of economics, sources of market failures, externalities
2: Tragedy of the commons, public goods, property rights
3: Environmental policy instruments, payments for environmental services, precautionary principle
4: Economics of pollution
5: Cost-benefit analysis, discounting, total economic value, valuing non-market goods
6: Green national accounts, green GDP, genuine progress indicator, human development index, why different measures give different outcomes
7: Causes and consequences of climate change, economics of climate change, adaptation and mitigation policy options, environment and equity
8: Green economy, economy and environment, industrial ecology, global food supply, agriculture and environment
9: The market for carbon capture and storage (CCS) from a consumer perspective
10: Non-renewable resources, scarcity and abundance: Economics, supply and consumption of non-renewable resources, mining and environment
11: Economics of renewable resources: Environment, economy and renewable resources, ecological and economic analysis of fisheries
12: Water supply and demand for water, water pricing, alternative uses of water, water quality, recreational water values

Course literature

Textbook:
Johnathan Harris & Brian Roach (2017 or 2022) Environmental and Natural Resource Economics: A Contemporary Approach. 4th edition (ISBN10 1138659479) or 5th edition (ISBN10 1138659479). Both versions of the book can be used.
Supplementary readings:
Bockstael, N.E., Freeman, A.M., Raymond, J.K., Portney, P.R., and Smith, V.K. (2000). 'On measuring economic values for nature.' Environmental Science and Technology, Vol. 34, pp. 1384-1389.

Study planning – final projects

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

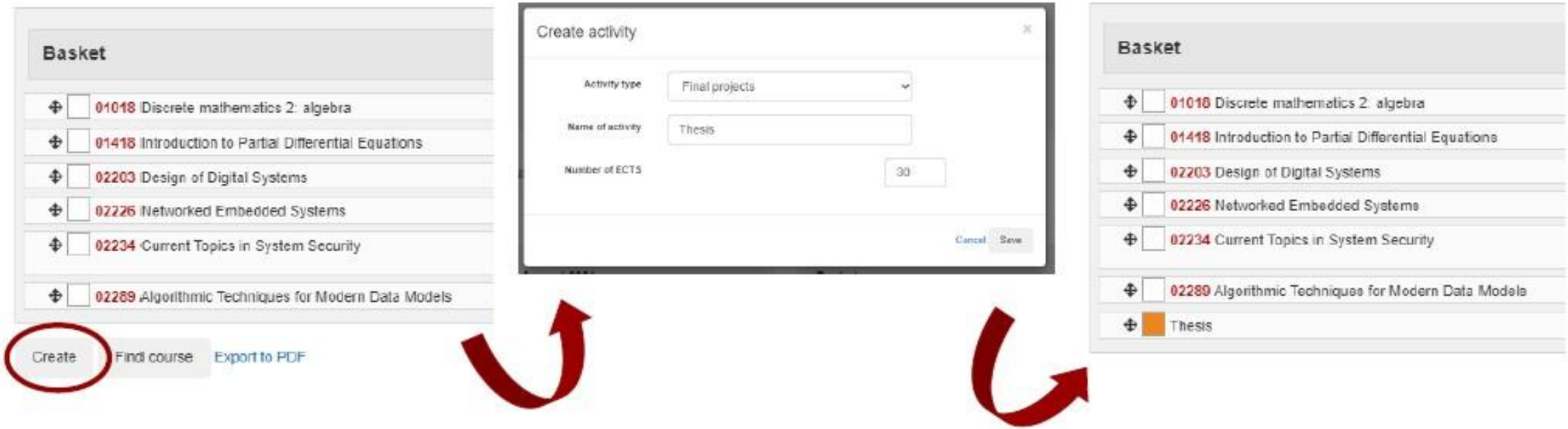
You can commence your thesis when you lack no more than 15 ECTS besides the thesis. DTU inside → Study Rules → Final projects → Master's thesis.

You can add your thesis to the Study planner by creating a placeholder course called 'Thesis'.

Study Guidance gives a presentation on final projects every semester. Find a recording of previous webinar on DTU inside → Academic Offers and Guidance → Study Guidance

Placeholder course in the Study planner

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



Resouces 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

Do you have questions or need further guidance?

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

Questions?