

# GIS and Visualisation

Title	GIS and Visualisation
Semester	F2024
Master programme in	Nordic Urban Planning Studies
Type of activity	Course
Teaching language	English
Study regulation	Read about the Master Programme and find the Study Regulations at <a href="https://ruc.dk">ruc.dk</a>

## REGISTRATION AND STUDY ADMINISTRATIVE

You register for activities through [stads selvbetjening](#) during the announced registration period, which you can see on the [Study administration homepage](#).

Registration When registering for courses, please be aware of the potential conflicts and overlaps between course and exam time and dates. The planning of course activities at Roskilde University is based on the recommended study programmes, which should not overlap. However, if you choose optional courses and/or study plans that goes beyond the recommended study programmes, an overlap of lectures or exam dates may occur depending on which courses you choose.

Number of participants

ECTS 5

Responsible for the activity Esbern Holmes ([holmes@ruc.dk](mailto:holmes@ruc.dk))  
Lasse Martin Koefoed ([lmartin@ruc.dk](mailto:lmartin@ruc.dk))

Head of study Tatiana Fogelman ([fogelman@ruc.dk](mailto:fogelman@ruc.dk))

Teachers

Study administration IMT Registration & Exams ([imt-exams@ruc.dk](mailto:imt-exams@ruc.dk))

Exam code(s) U60327

## ACADEMIC CONTENT

Overall objective	The course aims to give students the necessary knowledge, skills and competencies to collect, analyse and disseminate spatial data in both study and work contexts. This includes the ability to translate policy formulated visions to concrete operations. Students should be able to reflect critically to the use of spatial data analysis and their relevance to specific planning issues and problems.
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Detailed description of content

Course material and Reading list	Moodle ved starten kursus
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Overall plan and expected work effort	The proposed study intensity for a student in this activity: 135 hours: • Lecture (10 * 2h ) : 20h - Preparation for lecture (10 * 4h ) : 40h • Workshop after lectures (10 * 2h) : 20h • Giving feedback (Peer grading 3 * 2h) : 6h • Exam (49h) : 49h
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Format	The activities take place at campus
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Evaluation and feedback	Evaluation is via an anonymous online survey distributed to all participants. The course will also be discussed with participants in the final session and reviewed at the NUPS Education Committee with input from student representative.
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Programme  
**ASSESSMENT**

By the end of this course, students should be able to:

Overall learning outcomes	<ul style="list-style-type: none"><li>• Understand the principles behind the visualisation and representation of spatial data, and show knowledge of their basic spatial operations</li><li>• Apply knowledge from the course to plan and perform spatial analysis, and to produce relevant visualizations</li><li>• Use spatial analysis tools that include GIS in both study and work contexts</li></ul>
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- Make a critical assessment of the use of spatial technologies in relation to urban planning issues.

#### Individual written take-home assignment

Form of examination

The character limit of the assignment is: maximum 12,000 characters, including spaces.

The character limit includes the cover, table of contents, bibliography, figures and other illustrations, but exclude any appendices.

The duration of the take-home assignment is 7 days and may include weekends and public holidays.

Form of Re-examination

Assessment: 7-point grading scale.

Samme som ordinær eksamen / same form as ordinary exam

Type of examination in special cases

The individual take-home exam will be based on the case of the semester and continue the work of the exercises in the course.

#### **Assessment criteria**

It will be assessed to which degree the student demonstrates:

Examination and assessment criteria

- The ability to deconstruct solutions to spatial problems into relevant spatial operations based on the specified case
- The ability to perform and document relevant spatial operations
- The ability to make a critical assessment of the use of spatial technologies in relation to the specified case
- The ability to design relevant visualizations of the specified case and target audience
- The ability to use GIS to produce visualizations relevant to the specified case and target audience

And whether the exam fulfills all formal requirements.

Exam code(s) Exam code(s) : U60327

## **Course days:**

**Hold: 1**

### **GIS and Visualisation (NUPS)**

time 06-02-2024 08:15 til  
06-02-2024 12:00  
location 02.1-203 - gis 1 (27)  
Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation (NUPS)**

time 13-02-2024 08:15 til  
13-02-2024 12:00  
location 02.1-203 - gis 1 (27)  
Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation (NUPS)**

time 27-02-2024 10:00 til  
27-02-2024 14:00  
forberedelsesnorm ikke valgt  
forberedelsesnorm D-VIP ikke valgt  
location 02.1-005 - lille teorirum (30)  
Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation (NUPS)**

time 05-03-2024 08:15 til  
05-03-2024 13:00  
forberedelsesnorm ikke valgt  
forberedelsesnorm D-VIP ikke valgt  
location 03.1-e37 - klyngerum 3 (30)

Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation (NUPS)**

time 12-03-2024 08:15 til  
12-03-2024 13:00  
forberedelsesnorm ikke valgt  
forberedelsesnorm D-VIP ikke valgt  
location 02.1-203 - gis 1 (27)  
Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation (NUPS)**

time 19-03-2024 08:15 til  
19-03-2024 13:00  
forberedelsesnorm ikke valgt  
forberedelsesnorm D-VIP ikke valgt  
location 02.1-203 - gis 1 (27)  
Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation (NUPS)**

time 02-04-2024 08:15 til  
02-04-2024 16:00  
location 02.1-203 - gis 1 (27)  
Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation (NUPS)**

time 04-04-2024 08:15 til  
04-04-2024 16:00  
location 02.1-203 - gis 1 (27)  
Teacher Esbern Holmes ( holmes@ruc.dk )

### **GIS and Visualisation - Written examination (NUPS)**

time 29-04-2024 10:00 til  
06-05-2024 10:00  
forberedelsesnorm ikke valgt  
forberedelsesnorm D-VIP ikke valgt

## **GIS and Visualisation - Written reexamination (NUPS)**

time 12-08-2024 10:00 til  
19-08-2024 10:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt