B.Sc. Program
Software Engineering and Management

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Richard Berntsson Svensson

- Associate Professor at CSE
- AI-Assisted Decision Making, Cognitive Biases, Data Driven Decision Making, Requirements Engineering, Empirical Software Engineering
- Lund University, UNSW, DePaul University, BTH, University of Utrecht, City University London
- Telenor – Senior researcher (2 years)
- Sony – Researcher (7 years)

Teaching/Education
- Research with 40+ companies
- Teaching at Chalmers, GU, BTH, LU, UNSW, Industry professionals
- Working group for developing programs
- Higher Education Development Unit
- Program Manager for SEM bachelor program
- Chairman of the Swedish Requirements Engineering Research Network
# Agenda – August 21, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>08.00</td>
<td>Registration of new students</td>
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<tr>
<td>09:00</td>
<td>Introduction and welcome by the programme manager</td>
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<tr>
<td>10:00</td>
<td>Information from the student office and study counsellor</td>
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<tr>
<td>10:30</td>
<td>Information from students (details about social activities during the week)</td>
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<tr>
<td>11:00</td>
<td>LUNCH - Free BBQ</td>
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<tr>
<td>13:00</td>
<td>Campus tour and social activities</td>
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### Agenda – August 22, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:15</td>
<td>Introducing the university, department and division and information on study ethics</td>
</tr>
<tr>
<td>11:00</td>
<td>Information from Student Health &quot;Feel Good&quot;</td>
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<tr>
<td>11:20</td>
<td>Information from Göta student union</td>
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<tr>
<td>12:00</td>
<td>LUNCH</td>
</tr>
<tr>
<td>13:00</td>
<td>Social activities</td>
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</tbody>
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# Agenda – August 23, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Practical stuff</td>
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<tr>
<td>12:00</td>
<td>LUNCH</td>
</tr>
<tr>
<td>13:00 - 15:00</td>
<td>Diversity Workshop</td>
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</tbody>
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Babord
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<tr>
<th>Thursday 24/8</th>
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<tbody>
<tr>
<td>Full day</td>
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## Agenda – August 25, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Information about C&amp;SE Hackathon and Hackathons</td>
<td>Babord</td>
</tr>
<tr>
<td>10:00</td>
<td>Course information: Object-Oriented Programming (DIT043)</td>
<td></td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Course information: Mathematical Foundations for Software Engineering (DIT023)</td>
<td></td>
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</tbody>
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Material from introduction days

- Go to CSE student portal
  - [https://studentportal.gu.se/english/my-studies/cse](https://studentportal.gu.se/english/my-studies/cse)
  - New student
  - Software Engineering and Management
  - Material from introduction days
What will you learn?

- Databases
- Requirements Engineering
- Team and Development
- Project Management and Quality
- Web Development
- Software Architecture
- Software in Complex Systems
- Programming
Information: Aug. 25, 10:00 am
DIT043: Object-Oriented Programming
DIT046: Requirements and User Experience
DIT033: Data Management
DIT185: Software Analysis and Design

Information: Aug. 25, 11:00 am
DIT345: Fundamentals of Software Architecture
DIT346: Mini Project
DIT182: Data Structures and Algorithms
DIT185: Software Analysis and Design
DIT113: Mini Project: System Development
DIT345: Fundamentals of Software Architecture
DIT342: Web Development
DIT348: Software Development Methodologies

DIT633: Development of Embedded and Real Time Systems
DIT636: Software Quality and Testing
DIT639: Project: Cyber Physical Systems and Systems of Systems

Year 1

DIT038: Change Management
DIT822: Software Engineering for AI systems
DIT828: Project: Software Innovation

Year 2

DIT826: Project: Software Engineering for Data-Intensive AI applications
DIT832: Research Methods in Software Engineering
DIT836: Start-ups and Industrial Software Product Management

Year 3

DIT837: Bachelor Thesis in Software Engineering and Management

30 credits optional courses:
• Study any subject you want
• No overlap with mandatory courses
• Study abroad
• Study courses offered by SEM program

Information: Aug. 25, 10:00 am
DIT828: Project: Software Innovation
DIT832: Research Methods in Software Engineering
DIT837: Bachelor Thesis in Software Engineering and Management
Programme Characteristics

Theory + Practice

Collaboration with Industry

Problem-based + Project-based learning

T-shaped education

Culturally Mixed groups

Several extracurricular activities
What kind of extracurricular activities are available?

A lot of activities!

Göta organizes pubs, conferences and various events. There are many hackathons that happen in Gothenburg, often in Lindholmen itself.

C&SE Hackathons

Hash Code

JUNCTION
Course Evaluations

• Student representatives

• Continuous feedback

• **Online evaluation forms**

• Final evaluation meeting
Programme Evaluation

• Programme evaluation
  – Once a year
  – Online evaluation
  – Continuous feedback
Term 1 Teachers

- DIT023: Mathematical Foundations for Software Engineering
  Christian Berger

- DIT043: Object-Oriented Programming
  Francisco Gomes

- DIT046: Requirements and User Experience
  Jennifer Horkoff

- DIT094: Mini Project: Team Programming
  Richard Berntsson Svensson
Some guiding principles

• We are **not the enemy 😊**
  — The faculty and administration are a group of motivated, reasonable, and friendly people

• Open **communication** channel
  — Related to a course, talk to examiner/course responsible/teacher, or student representatives
  — Related to the program, talk to me if something doesn’t seem right to you
  — Suggest a solution, it shows your commitment
Some guiding principles

- **Professionalism** is the most appreciated currency here (next to hard work)
  - Respect your fellow students (and teachers)
  - Deadlines are deadlines
  - Don’t ask for exceptions (e.g. extra re-exam)
  - Everything you submit is checked for plagiarism
  - Don’t cover up for a slack team member
Disciplinary Measures

- The Higher Education Ordinance, Swedish Code of Statues (Högskoleförordningen 1993:100)

- Disciplinary measures may be invoked against students who:
  - Use prohibited aids or other methods to attempt to deceive during examinations or other forms of assessment of study performance
  - Disrupt or obstruct teaching, tests, or other activities within the framework of courses and study programs at the higher education institution
  - Disrupt activities in the library of the higher education institution or other separate establishments at the institution
  - Subject another student or member of the staff of the higher education institution to harassment or sexual harassment of the kind laid down in Section 4 of Chapter 1 of the Discrimination Act (2008:567)

- Possible consequences: Expelled from the University for up to 6 months (No earning of credits, access to university lectures, buildings etc.)

- All employees must, by law, report any suspicion
What do I do if I have been subjected to discrimination and/or harassment?

• Tell someone at the department
  – Vice Prefect, Study Counsellor, Program Manager, Teacher

• (If needed): Contact someone at the next level
  – Dean, Dick Stenmark, University of Gothenburg (GU)
  – Pro Dean, Miroslaw Staron, University of Gothenburg (GU)

• For advice & support
  – Equality of treatment representative at the department: Francisco Gomes
  – The Student Union: Itsek | Göta student union at University of Gothenburg
  – The student ombudsmen at University of Gothenburg
  – Student health services
What happens when I report something?

• The vice prefect of the department investigates the circumstances
  – (Vice prefect: Roger Johansson)

• You will be able to state what has happened

• You will be given information by your vice prefect how the matter will be handled

• You will be given feedback