

### The Assessment in the Course

- Written Exam
  - 50%

Will be both in Icelandic and English To pass the course you must pass the final exam (with 4,75 or higher)

No helping material allowed in the final exam

- Group assignments
  - 40% (10% each)
- Problem solving projects
  - 10% in total (5 of the highest count)



# The Final Exam will be in DigiExam

- You need to take your own computers with you to the exam
  - If you are using Linux or Ubntu you need to lend a computer at the unversity
  - Talk to the technical guys in Sólin before the exam to sign up for a laptop
- You will not be able to browse the internet during the exam
  - You only have access to the exam when DigiExam is open on your computer



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### DigiExam Needs to be Installed in Advance

- You need to have DigiExam installed in your computer
  - You can get information here:
     <a href="https://help.ru.is/index.php?/default\_import/Knowledgebase/Article/View/189/0/digiexam---rafrant-profakerfi--digital-exam">https://help.ru.is/index.php?/default\_import/Knowledgebase/Article/View/189/0/digiexam---rafrant-profakerfi--digital-exam</a>
- The problem solving classes will be around this
  - You will get guidance on how to install this
  - It will maybe take 30 minutes



### The Construction of the Written Exam

- Last Autumn the exam has the following structure:
  - 30% multiple choice questions
  - 40% text questions
  - 30% realistic project

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### **Guidelines for the multiple choice questions:**

- Sometimes there were more than one answering option that gave the right answer.
- The questions were marked according to weather one or more answering options were forming the right answer.



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## **Learning Outcomes**

- Knowledge
  - Be able to describe
- Skills
  - Be able to use
- Competences
  - Be able to know when to use and why





### All the material in the course basis for the Exam

- In the projects you are developing the skills and competences
  - The written exam will cover all LO levels, knowledge, skills and competences
- During lectures you are getting knowledge to be able to
  - Describe some of the material (knowledge LO)
  - Use the methods/techniques in the project (skills LO)
  - Develop deep understanding (competences LO)
- Through reading the books you also get additional knowlegde to meet the LOs



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### Skills - Being able to use

- 1. Be able to state requirements, (both functional and non-functional) for a medium sized computer system
  - Including stating measureable usability and UX goals
- 2. Be able to make paper prototypes and intermedium prototypes of a software system
- 3. Have developed skills of evaluating in the analysis and design phase.
- 4. Be able to model the system design using diagrams like state, sequence and class diagrams.
- 5. Be able to write reports that are understandable for recipients.



### Competences - Describe, use and compare

- Be able to state the requirements for a software system in a comprehensive manner.
  - Including discussing the difference between functional and non-functional requirements
- Be able to design user interface software systems according to the needs of users
  - Including discussing why user centred design is important
- 3. Be able to evaluate prototypes to be able to adapt to system requirements.
  - Using think-aloud method and prototype interviews
- 4. Be able to set out an analysis and design of a comprehensive manner in the form of reports, prototypes and models
  - Including being able to discuss these various forms, the strengths and weaknesses of each of them



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### Knowledge - be able to describe

- 1. Be familiar with methods for analysing software requirements.
- 2. Be familiar with methods for designing software.
- 3. Know basic principles in the design of user interfaces, to be called standards and guidelines for the design of user interfaces.
- Know the main definitions and characteristics of object oriented modelling and design.
- 5. Be familiar with different methods of information gathering.
- Know in what way the design of a computer system or application might succeed or fail because of the diversity of human beings.
- Be familiar with the main concepts of objective design and programming.
- Be able to identify the main types of software testing and when these are used.
- Be able to describe the main concepts for user centred software development such as usability and user experience.



### To prepare for the Exam

- Read thoroughly through the projects and your solutions
  - Read through the feedback you got on the projects
  - Read the slides to learn more about the different methods used in the projects
- Read the book and the slides on the things that you should be able to describe in the exam



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# Let's Look at some Examples





# Overview of this lecture • Assessment in the Course \*\*www.hr.is\*\*