

Software Architecture 2021/22

doc. Ing. Valentino Vranić, PhD., ÚISI FIIT STU

Exam – January 17, 2022

At the exam, you may use any sources. However, you must write your exam on your own. Communicating with persons other than the examiner is not allowed.

To write your exam, you may use whatever text editor you wish. If you need to draw a diagram, you can do so in Enterprise Architect, but you can do so also in tools for quick diagram sketching, such as UMLet. Afterwards, create one PDF file and submit it to the corresponding submission site in AIS by the time set for the exam.

- 1. (8 b)** On your own hypothetical example explain how can a distributed software architecture be established using design patterns.
- 2. (8 b)** On your own hypothetical example explain the meaning of Conway's law and the organizational pattern implied directly by it. What other organizational pattern could you apply in this example and on what purpose?
- 3. (8 b)** What way of introducing a software product line would you prefer and why? Support your choice by your own hypothetical example.
- 4. (6 b)** How is the DCI architecture related to software maintenance?