

Detailed plan

ID1018

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Detailed plan

Abbreviations

The Swedish abbreviations have been retained unaltered to avoid having two overlapping and confusing systems.

F Lecture (föreläsning)

L Lab (laboration)

ÖV Exercise (övning)

OU Mandatory exercise (obligatorisk uppgift)

EU Extra exercise (extra uppgift)

Chapter and page references

A the time of writing the English version of the literature is not available. Hence references are to the Swedish version.

Chapter and page references for lectures apply to the book Fadil Galjic, “Programming principles in Java”.

Week 1

F1

- A Java program
- Chapter 1

F2

- Data storage
- Chapter 2

F3

- Standard input
- Chapter 3
- Operations on primitive values
- Chapter 4

L1

ÖV1

- See *Start Programming*.
- Do exercise 1 in the document *Exercises*.

Week 2

F4

- Logic
- Chapter 5

F5

- Vectors
- Chapter 6

F6

- Methods
- Chapter 7

L2

ÖV2

- See *Start Programming*.
- Do exercise 2 in the document *Exercises*.

OU1 — work

- See *Programming Assignments*.
- Temperature measurements.

Week 3

F7

- A class library
- Chapter 8

F8

- Algorithms
- Chapter 9 (pages 217–268)

F9

- Objects
- Chapter 10 (pages 305–348)

L3

- OU1 examination
- OU2 — work
- Computations on a triangle

Week 4

F10

- Algorithms
- Chapter 9 (pages 269–304)

F11

- Objects
- Chapter 10 (pages 349–392)

F12

- Exceptions
- Chapter 11

L4

- OU2 examination
- OU3 — work
- The shortest path

Week 5

F13

- Input and output
- Chapter 12

F14

- Creating new object types
- Chapter 13 (pages 487–524)

F15

- Creating new object types
- Chapter 13 (pages 525–570)

L5

- OU3 examination
- OU4 — work
- Arithmetic with character strings
- EU1 — work
- The least integer
- EU2 — work
- Sorting a set

Week 6

F16

- Developing new object types
- Chapter 14

F17

- Inheritance
- Chapter 15

F18

- Class hierarchies
- Chapter 16 (pages 677–728)

L6

- OU4 examination
- EU1 examination
- EU2 examination
- OU5 — work
- A model of a polyline
- EU3 — work
- The presentation of chess-pieces
- EU4 — work
- An abstract model of a polyline

Week 7

F19

- Class hierarchies
- Chapter 16 (pages 729–746)
- Interfaces
- Chapter 17 (pages 747–763)

F20

- Interfaces
- Chapter 17 (pages 764–786)

L7

- OU5 examination
- EU3 examination
- EU4 examination

After the course

L extra

- OU4 — examination
- OU5 — examination
- EU3 — examination
- EU4 — examination