Tentative course schedule Evolutionary Computing 2023/24 (v5)

1. Chapters are from the course book: Eiben and Smith, Introduction to Evolutionary Computing, 2nd ed., Springer, 2015
2. For each chapter, Canvas offers additional material: a presentation and a video lecture recorded during the pandemic.

Nr	Date, day, time	Agenda
1	Sept 5 Tuesday 09:00-10:45	General course info, Presentation about the standard programming assignment and the research assignment Lecture on **evolutionary problem solving** (not in book, slides and video lecture on Canvas)
2	Sept 7 Thursday 13:30-15:15	**Introduction to EvoMan** (Karine) Problems to be solved (**ch01**), EC the origins (**ch02**),
	Sept 7 Thursday 17:30-19:15	Practical session about the programming assignment FINALIZING STUDENT TEAMS FOR THE PROGRAMMING ASSIGNMENT
3	Sept 12 Tuesday 09:00-10:45	What is an EA (**ch03**), Representation, Mutation, and Recombination (**ch04**),
4	Sept 14 Thursday 13:30-15:15	Representation, Mutation, and Recombination (**ch04**) continued Interactive tutorial
	Sept 14 Thursday 17:30-19:15	Practical session about the programming assignment
5	Sept 19 Tuesday 09:00-10:45	Fitness, Selection, and Population Management (**ch05**), Interactive tutorial
6	Sept 21 Thursday 13:30-15:15	**Neuro-Evolution** (not in book, slides and video lecture on Canvas) **Lecturer: Karine**
	Sept 21 Thursday 17:30-19:15	Practical session about the programming assignment
7	Sept 26 Tuesday 09:00-10:45	Parameter Tuning (**ch07**)
8	Sept 28 Thursday 13:30-15:15	Parameter Control (**ch08**), Working with EAs (**ch09**) **Lecturer: Karine**
	Sept 28 Thursday 17:30-19:15	Practical session about the programming assignment
	Oct 1 Sunday 23:59	**Deadline for Assignment 1 report**
9	Oct 3 Tuesday 09:00-10:45	Popular EA variants (**ch06**), part 1 Popular EA variants (**ch06**), part 2
10	Oct 5 Thursday 13:30-15:15	Interactive tutorial Review and discussion of selected papers (shared on Canvas)
	Oct 5 Thursday 17:30-19:15	Practical session about the programming assignment

11	Oct 10 Tuesday 09:00-10:45	Hybridisation with other techniques / Memetic Algorithms (**ch10**), Multiobjective Evolutionary Algorithms (**ch12**), Constraint Handling (**ch13**)
12	Oct 12 Thursday 13:30-15:15	**Extra Q&A session w.r.t assignment / competition** **Lecturers: Banno and Bob**
	Oct 12 Thursday 17:30-19:15	Practical session about the programming assignment
	Oct 15 Sunday 23:59	**Deadline for the competition submission (Assignment 2)**
13	Oct 17 Tuesday 09:00-10:45	Evolutionary Robotics (**ch17**)
14	Oct 19 Thursday 13:30-15:15	Competition results and prizes, exam info, Q & A, subjects for possible Master project announced. Guszti's **"TED talk" on The Evolution of Things**
	Oct 20 Friday 23:59	**Deadline for Assignment 2 report**
	Oct 23 Monday 18:45-21:30	**EXAM on Campus (multiple choice)**