

| Week   | Content (tentative plan, color of INF102 is green)                   |
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| 34.L1  | Queues and Stacks  |
| 34.L2  | Analysis of Algorithms   |
| 35.L1  | Union-Find   |
| 35.L2  | Elementary Sorts   |
| 35.W   | 1.3: 3,4,5,12,13; 1.4: 5,6,8   |
| 36.L1  | Mergesort  |
| 36.L2  | Quicksort  |
| 36.W   | 1.4: 12,14,24; 1.5: 8,9,12,14  |
| 37.L1  | Priority Queues  |
| 37.L2  | Applications of Sorting  |
| 37.W   | 2.1: 8, 10, 14, 15, 25; 2.2: 4, 8, 21, 28                            |
| 38.Ho1 | Hand out first compulsory assignment                                 |
| 38.L1  | Symbol Tables  |
| 38.L2  | Binary Search Trees  |
| 38.W   | 2.3: 2, 4, 6, 15, 25; 2.4: 4, 7, 8                                   |
| 39.L1  | Balanced Binary Search Trees I (2-3 search trees)                    |
| 39.L2  | No lecture   |
| 39.Dl1 | Deadline first assignment  |
| 40.L1  | Balanced Binary Search Trees II (red-black search trees)             |
| 40.L2  | Hash Tables  |
| 40.W   | 2.4: 18, 29; 2.5: 1; 3.1: 13, 14, 31                                 |
| 41.Ho2 | Hand out second compulsory assignment                                |
| 41.L1  | Applications of Searching  |
| 41.L2  | Summary Chapters 1, 2, 3   |
| 41.W   | 3.2: 1, 4, 6, 13, 18, 24, 27; 3.3: 1, 2                              |
| 42.L1  | "På vei" week, no lectures   |
| 42.Dl2 | Deadline second assignment   |
| 43.L1  | Undirected Graphs, Representation and Depth-first search             |
| 43.L2  | Breadth-first search, Connected components and Degrees of separation |
| 43.W   | 3.3: 4, 9; 3.4: 1, 12, 13, 23, 31, 38                                |
| 44.Ho3 | Hand out third compulsory assignment                                 |
| 44.L1  | Directed Graphs, Depth first search and Topological Sort             |
| 44.L2  | Prim's Algorithm   |
| 44.W   | 4.1: 1, 2, 9, 10, 12, 16, 33, 38; 4.2: 4, 7                          |
| 45.L1  | Kruskal's Algorithm  |
| 45.L2  | No lecture   |
| 45.Dl3 | Deadline third assignment  |
| 46.L1  | Weighted Graphs and Dijkstra   |
| 46.L2  | Summary Chapter 4  |
| 46.W   | 4.2: 10, 27, 28, 32, 39, 42; 4.3: 1, 3, 4, 6                         |
| 47.Li  | Repetition and Exercises   |
| 47.W   | 4.3: 8, 12, 19, 39; 4.4: 1, 8, 15, 16, 24, 25                        |
| 48     | Q&A, Exam 27 November  |