

| Week | Content (tentative plan, color of INF102 is green) |
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| 34.L1 | Queues and Stacks |
| 34.L2 | Resizing Arrays and Linked Lists |
| 35.L1 | Analysis of Algorithms |
| 35.L2 | Union-Find |
| 35.W | Exc. from 1.3: 3, 4, 5, 12, 13; from 1.4: 5, 6, 8 |
| 36.L1 | Elementary Sorts |
| 36.L2 | Mergesort |
| 36.W | Exc. from 1.4: 12, 14, 24; from 1.5: 8, 9, 12, 14 |
| 37.L1 | Quicksort |
| 37.L2 | Priority Queues |
| 37.W | Exc. from 2.1: 8, 10, 14, 15, 25; from 2.2: 4, 8, 21, 28 |
| 38.Ho1 | Hand out first compulsory assignment |
| 38.L1 | Applications of Sorting |
| 38.L2 | Symbol Tables |
| 38.W | Exc. from 2.3: 2, 4, 6, 15, 25; from 2.4: 4, 7, 8 |
| 39.L1 | Binary Search Trees |
| 39.L2 | No lecture |
| 39.Dl1 | Deadline first assignment |
| 40.L1 | Balanced Binary Search Trees I (2-3 search trees) |
| 40.L2 | Balanced Binary Search Trees II (red-black search trees) |
| 40.W | Exc. from 2.4: 18, 29; from 2.5: 1; 3.1: 13, 14, 31 |
| 41.Ho2 | Hand out second compulsory assignment |
| 41.L1 | Hash Tables |
| 41.L2 | Applications of Searching |
| 41.W | Exc. from 3.2: 1, 4, 6, 13, 18, 24, 27; from 3.3: 1, 2 |
| 42.L1 | Summary Chapters 1, 2, 3 |
| 42.L2 | Questions on second assignment |
| 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 | Exc. from 3.3: 4, 9; from 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 | Exc. from 4.1: 1, 2, 9, 10, 12, 16, 33, 38; from 4.2: 4, 7 |
| 45.L1 | Kruskal's Algorithm |
| 45.L2 | No lecture |
| 45.Dl3 | Deadline third assignment |
| 46.L1 | Weighted Graphs and Dijkstra, Bellman-Ford |
| 46.L2 | Summary Chapter 4 |
| 46.W | Exc. from 4.2: 10, 27, 28, 32, 39, 42; from 4.3: 1, 3, 4, 6 |
| 47.Li | Repetition and Old Exams |
| 47.W | Exc. from 4.3: 8, 12, 19, 39; from 4.4: 1, 8, 15, 16, 24, 25 |
| 49 | Q&A, Exam 06.12.2017, 09:00–12:00 |