|  |  |  |
| --- | --- | --- |
| Class | DAT15B  DAT15I | logo_int.jpg |
| Fronter | DAT15B > 3.semester > SWC 3  DAT15I > 3.semester > SWC 3 |
| Semester | 3rd |
| Period | 22/12-2016 .. 18/12-2016 |
| Course | Software Construction 3 - SWC3 |
| Teacher | Constantin Alexandru Gheorghiasa (email: [coag@kea.dk](mailto:coag@kea.dk)) |

*Note: The dates, times and content (topic/activity) are subject to change*.

**Exercices**

* There are 2 mandatory assignments for SWC 3. MA1 is combined with TEK, and MA2 is only SWC3.
* The final product of these mandatory assignments must be hand in on fronter by the deadline.
* The final product of these mandatory assignments must be presented in front of your teacher by the deadline.

**If you do not meet these requirements, you can not attend the exam and you will miss 1 of 3 exam attempts.**

**Exam dates:**

Week 1 .. 3 2017 (2nd of Jan 2017 .. 19th of Jan 2017)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **PROG** | **TEK** | **Design** | **Exercices** |
| **341** | Introduction   * general about this semester * OOP recap: Encapsulation, Abstraction, Inheritance & Polymorphism * ADT: Lists, Sets, Interface, Generics | Introduction   * general about this semester * Recap on Binary/hex |  |  |
| **352** | Recap 2   * Threads * Design patterns * DB: Normalization | Network introduction (chapter 1)   * Network peers * Client-Server * TCP/IP (OSI) |  |  |
| **363** | Transactions  Concurrent Programming | Network part 2   * Application Layer |  | **Start Mandatory Assignment I**  **(SWC + TEK)** |
| **374** | Client Programming | Application protocol for mandatory | Scrum workshop |  |
| **385** | Server Programming | Transport-layer   * TCP * Statemachine |  |  |
| **396** | Multi Client Programming | Transport-layer   * UDP * sockets |  |  |
| **407** | * continued | Sockets part 2 |  |  |
| **418** | Web I   * HTML * CSS | Network layer   * IP * NAT * PAT |  | **Mandatory Assignment I Hand-in**  **(SWC + TEK)**  **Start Mandatory Assignment II**  **(SWC)** |
| **429** | Web II   * JS * jQuery | Datalinklayer   * MAC * ARP |  |  |
| **4310** | Web III   * Ajax * API | Security   * Hashing * Crypto   + Encryption   + Symmetric/asymmetric |  |  |
| **4411** | * continued | Security |  |  |
| **4512** | Design patterns: [Strategy](https://sourcemaking.com/design_patterns/strategy), [Singleton](https://sourcemaking.com/design_patterns/singleton), [Flyweight](https://sourcemaking.com/design_patterns/flyweight),  [Composite](https://sourcemaking.com/design_patterns/composite), [Iterator](https://sourcemaking.com/design_patterns/iterator) | Mobile |  | **Mandatory Assignment II Hand-in**  **(SWC)** |
| **4613** | KEA Innovation’s Week 2016 workshop (3&4 sem) |  |  |  |
| **4714** | Design patterns (continued): [Mediator](https://sourcemaking.com/design_patterns/mediator), [Observer](https://sourcemaking.com/design_patterns/observer), [Decorator](https://sourcemaking.com/design_patterns/decorator), [MVC](https://en.wikipedia.org/wiki/Model%E2%80%93view%E2%80%93controller) | Mobile |  |  |
| **4815** | Exam Preparation | Exam Preparation |  |  |
| **4916** | Exam Preparation | Exam Preparation |  |  |
| **5017** | Exam Preparation | Exam Preparation |  |  |
| **1-3** | Exam |  |  |  |