

# NordSecMob – Master’s programme in Security and Mobile Computing

## Required document n:o 7 – University course descriptions

Name of the applicant:                      Application number:

The applicants should have solid knowledge of mathematics (discrete mathematics), programming skills, data structures and algorithms, computer architecture and basics of computer networks. In addition, basic knowledge of the following subject areas will be an advantage: databases and database management, principles of theoretical computer science, logic in computer science, software engineering, operating systems and concurrent programming. Please use this form to provide the course descriptions.

Please list the most relevant/advanced course(s) and the course contents you have taken in the following categories. You can either copy the course contents from your study guide (please mention the source) or write the description yourself (Required). Please list the topics taught on the course into the course description. Note, that it is not necessary to have two courses in each category!

WWW address of the university (if available) in English for verifying the course descriptions:

### 1) Math courses, especially computing related like discrete mathematics and mathematical logics, 2 most relevant/advanced courses methodology and languages

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

**2) Programming courses, 2 most relevant/advanced courses on software**

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

**3) Data structures and algorithms (leave out basic programming), 2 most relevant/advanced courses**

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

#### 4) Computer architecture, 2 most relevant/advanced courses

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

#### 5) Computer networks and data communications, 2 most relevant/advanced courses

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

Level of the course: ☐ Bachelor ☐ Master  
Name of the course in your transcript:  
Course content:

**6) Databases and database management, 2 most relevant/advanced courses**

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

**7) Theoretical computer science and formal methods, 2 most relevant/advanced courses**

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

**8) Logic in computer science, 2 most relevant/advanced courses**

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

**9) Software engineering, 2 most relevant/advanced courses**

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

#### 10) Operating systems, 2 most relevant/advanced courses

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

#### 11) Concurrent programming, 2 most relevant/advanced courses

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

Level of the course: ☐ Bachelor ☐ Master

Name of the course in your transcript:

Course content:

**12) Other remarks concerning the course descriptions:**