Security and Cloud Computing

**Code:** SCI3085

**Extent:** 20-25 credits

**Language:** English

**Teacher in charge:** Professor Tuomas Aura

**Administrative contact:** Anu Kuusela

**Target group:** All master's students with sufficient prerequisite knowledge.

**Application procedure:** Open for all students of Aalto University

**Quotas and restrictions:** No quotas

**Prerequisites:** Bachelor-level minor in Computer Science or equivalent knowledge. Please check the prerequisites of the courses before signing up.

**Content and structure of the minor**

Students select 20-25 credits from the list below. The teacher in charge can give advice on the course selection. Other courses can be included with prior agreement.

<table>
<thead>
<tr>
<th>CODE</th>
<th>NAME</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>CS-C3170</td>
<td>Web Software Development</td>
<td>5</td>
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<tr>
<td>CS-E4670</td>
<td>Full Stack Web Development</td>
<td>5</td>
</tr>
<tr>
<td>CS-E4190</td>
<td>Cloud Software and Systems</td>
<td>5</td>
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<tr>
<td>CS-E4260</td>
<td>Multimedia Services in Internet</td>
<td>5</td>
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<td>CS-C3130</td>
<td>Information Security</td>
<td>5</td>
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<td>CS-E4350</td>
<td>Security Engineering</td>
<td>5</td>
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<td>CS-E4300</td>
<td>Network Security</td>
<td>5</td>
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<td>CS-E4340</td>
<td>Cryptography</td>
<td>5</td>
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<td>MS-E1687</td>
<td>Advanced Topics in Cryptography</td>
<td>5</td>
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<td>CS-E4160</td>
<td>Laboratory Works in Networking and Security</td>
<td>5</td>
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<tr>
<td>CS-E4330</td>
<td>Special Course in Information Security</td>
<td>2–10</td>
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