# Curriculum 2019-2020 for the students coming from the AIT

(27.6.2019)

## Wireless Communications Engineering – Radio Access and Networks

### DD-WCE–RAN study option

<table>
<thead>
<tr>
<th>Code of the course</th>
<th>Name of the course</th>
<th>Course credits</th>
<th>Suggested timing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>First year (at AIT)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fall</td>
</tr>
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<td></td>
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<tr>
<td>AT77.02</td>
<td>Signals, Systems and Stochastic Processes</td>
<td>3</td>
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<tr>
<td>AT77.04</td>
<td>Data Communications</td>
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<tr>
<td>AT77.19</td>
<td>Optimization for Communications and Networks</td>
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<tr>
<td>AT77.13</td>
<td>Digital Communications</td>
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<tr>
<td>AT77.17</td>
<td>Network QoS</td>
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<td>AT77.07</td>
<td>Cellular Mobile Systems</td>
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<td>x</td>
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<tr>
<td>521324S</td>
<td>Statistical signal processing II</td>
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<tr>
<td>521349S</td>
<td>Wireless Communications II</td>
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<tr>
<td>521326S</td>
<td>Radio Engineering I</td>
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<tr>
<td>521998S</td>
<td>Master’s Thesis</td>
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### Obligatory Studies, Total 18 AIT crs + 45 ECTS crs

### Elective Studies, Total ≥ 7 AIT cr + 15 ECTS crs

Master's Degree at AIT is 49 AIT crs.

Master’s Degree at UOulu is 120 crs which is 50 % of the whole study load.

First year (at AIT)

Second year (at UOulu)

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
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<td>3</td>
<td>4</td>
<td>6</td>
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# Notes

- Master’s Thesis: Required
- *: Coordinated or arranged through the Department of Telecommunications Engineering
- x: Elective course

- Fall: October – December
- Spring: January – March
- Summer: April – June
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>521385</td>
<td>Wireless body area networks *</td>
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<td>521097S</td>
<td>Wireless Measurements</td>
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<td>521225S</td>
<td>RF Components and Measurements</td>
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<td>Electronic System Design</td>
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<td>Biosignal processing</td>
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<td>521148S</td>
<td>Ubiquitous Computing Fundamentals</td>
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<td>X</td>
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<td>X</td>
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<tr>
<td>521479S</td>
<td>Software Project</td>
<td>7</td>
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* recommended
The first year of the Master's Degree at UOulu is 120 ECTS credits. The second study year in the DD-WCE study program is 60 crs which is 50% of the whole study load at UOulu.

The first year of the Master's Degree at AIT is 49 AIT crs. The study program is 50% of the whole study load at AIT.