WCE–RAN Schedule — 1st Year

Autumn 2019
Periods 1-2

- Numerical Matrix Analysis (5 cr, 1 p)
- Statistical Signal Processing I (5 cr, 1 p)
- Wireless Commun. I (5 cr, 1 p)
- Introduction to Optimization (5 cr, 2 p)
- Communications Networks I (5 cr, 2 p)
- Radio Channels (5 cr, 2 p)
- Simulations & Tools for Telecom. (5 cr, 2 p)

Spring 2020
Periods 3-4

- Communications Networks II (7 cr, 3-4 p)
- Statistical Signal Processing II (5 cr, 3 p)
- Wireless Commun. II (5 cr, 3 p)
- Antennas (5 cr, 4 p)
- Wireless Body Area Networks (5 cr, 4 p) (*)
- Advanced Practical Training (3 cr) (recommended in summer 2020, training report will be done on autumn 2020 term)

Finnish Language studies (2-10 cr), and/or optional studies depending on personal study plan (PSP)

Basic Studies (all 40 cr obligatory)
Advanced Studies (choose ≥ 33 cr)
Optional Studies (choose ≥ 17 cr)

*) = will be lectured on even years (2020, 2022)  **) = will be lectured on odd years (2021, 2023)
WCE–RAN Schedule — 2nd Year

Autumn 2020
Periods 1-2

Telecommunication Engineering Project (5 cr) or Electronics Design and Construction Exercise (6 cr, 1-2 p) (one of these is obligatory)

Convex Optimization (7 cr, 1-2 p) *

Information Theory (5 cr, 1 p) *

Multiantenna Commun. (5 cr, 1 p) **
(not available for student group 2019-2021)

Channel Coding & Modul. (5 cr, 1p) **
(not available for student group 2019-2021)

Statistical Commun. Theory (7 cr, 1-2 p) *

Radio Engineering I (5 cr, 2 p)

Signal Processing Systems (5 cr, 2 p)

Finnish Language studies (2-10 cr), and/or optional studies depending on personal study plan (PSP)

Spring 2021
Periods 3-4

Master’s Thesis Work, Maturity Test, Seminar (30 cr, 3-4 p)

Commun. Signal Proc. (5 cr, 4 p) **

Basic Studies (all 40 cr obligatory)

Advanced Studies (choose ≥ 33 cr)

Optional Studies (choose ≥ 17 cr)

*) = will be lectured on even years (2020, 2022)  **) = will be lectured on odd years (2021, 2023)
WCE–RF Schedule — 1st Year

Autumn 2019
Periods 1-2

- Statistical Signal Processing I (5 cr, 1 p)
- Electronics Design II (6 cr, 1 p)
- Wireless Commun. I (5 cr, 1 p)

Spring 2020
Periods 3-4

- Radio Engineering I (5 cr, 2 p)
- Electronics Design III (6 cr, 2 p)
- Radio Channels (5 cr, 2 p)

- Statistical Signal Processing II (5 cr, 3 p)
- Radio Engineering II (6 cr, 3 p)
- Microel. & Packaging Technologies (5 cr, 3 p)

- RF Components and Measurem. (5 cr, 4 p)
- Antennas (5 cr, 4 p)
- Advanced Practical Training (3 cr)
  (recommended in summer 2020, training report will be done on autumn 2020 term)

**Finnish Language studies** (2-10 cr), and/or optional studies depending on personal study plan (PSP)

**Basic Studies** (all 36 cr obligatory)

**Advanced Studies** (choose ≥ 36/37 cr)

**Optional Studies** (choose ≥ 12/13 cr)

*) = will be lectured on even years (2020, 2022)  **) = will be lectured on odd years (2021, 2023)
**WCE–RF Schedule — 2nd Year**

**Autumn 2020**
Periods 1-2

- **Telecommunication Engineering Project** (5 cr) or **Electronics Design and Construction Exercise** (6 cr, 1-2 p) (one of these is obligatory)
- **Electronic System Design** (5 cr, 1 p)
- **Telecommunications Circuit Design** (6 cr, 1 p)
- **Finnish Language studies** (2-10 cr), and/or optional studies depending on personal study plan (PSP)

**Spring 2021**
Periods 3-4

- **Master’s Thesis Work, Maturity Test, Seminar** (30 cr, 3-4 p)
- **Basic Studies** (all 36 cr obligatory)
- **Advanced Studies** (choose ≥ 36/37 cr)
- **Optional Studies** (choose ≥ 12/13 cr)

*) = will be lectured on even years (2020, 2022)  
**) = will be lectured on odd years (2021, 2023)