

Master's programme in Wireless Communications

Study Year 1 (Mandatory Courses)

| Course Code | Credits | Cycle | S.Ex. stud. | Language | Course Name | Footnote | Links | 21/22 | | | |
|------------------------|---------|-------|-------------|----------|---|----------|---|-------|-----|-----|-----|
| | | | | | | | | sp1 | sp2 | sp3 | sp4 |
| EITG05 | 7.5 | G2 | X | E | Digital Communications | | KS KE U W T | 1 | | | |
| ETEN10 | 7.5 | A | X | E | Antenna Technology | | KS KE U W T | | 2 | | |
| ETTNO1 | 7.5 | A | X | E | Digital Communications, Advanced Course | | KS KE U W T | | 2 | | |
| ETSN10 | 7.5 | A | X | E | Network Architecture and Performance | | KS KE U W T | | | 3 | |
| EITN85 | 7.5 | A | X | E | Wireless Communication Channels | | KS KE U W T | | | 3 | |
| EITN75 | 7.5 | A | X | E | Wireless System Design Principles | | KS KE U W T | | | | 4 |

Study Year 1 (Elective Mandatory Courses)

| Course Code | Credits | Cycle | S.Ex. stud. | Language | Course Name | Footnote | Links | 21/22 | 21/22 | 21/22 | 21/22 |
|------------------------|---------|-------|-------------|----------|-------------------------------------|----------|-----------------------------|-------|-------|-------|-------|
| | | | | | | | | sp1 | sp2 | sp3 | sp4 |
| EITF50 | 7.5 | G2 | X | E | An Introduction to Wireless Systems | | KS KE U W T | 1 | | | |
| EMSF10 | 7.5 | G2 | X | E | Stationary Stochastic Processes | X | KS KE U W T | 1 | | | |

[EMSF10](#) Stationary Stochastic Processes: *The course is to be studied together with MASC04*

Study Year 2 (Mandatory Courses)

| Course Code | Credits | Cycle | S.Ex. stud. | Language | Course Name | Footnote | Links | 21/22 | 21/22 | 21/22 | 21/22 |
|------------------------|---------|-------|-------------|----------|-----------------------------------|----------|-----------------------------|-------|-------|-------|-------|
| | | | | | | | | sp1 | sp2 | sp3 | sp4 |
| EITN10 | 7.5 | A | X | E | Multiple Antenna Systems | | KS KE U W T | 1 | | | |
| EITN21 | 7.5 | A | X | E | Project in Wireless Communication | | KS KE U W T | 1 | 2 | | |

Elective Courses - MWIR

| Course Code | Credits | Cycle | Year | From year | S.Ex. stud. | Language | Course Name | Footnote | Links | Links | | | | |
|------------------------|---------|-------|------|-----------|-------------|----------|--|----------|---|-------|-----|-----|-----|---|
| | | | | | | | | | | sp1 | sp2 | sp3 | sp4 | |
| EITN70 | 7.5 | A | 1 | 1 | X | E | Channel Coding for Reliable Communication | | KS KE U W T | | | 2 | | |
| ETIN50 | 7.5 | A | 1 | 1 | X | E | RF Amplifier Design | | KS KE U W T | | | 2 | | |
| EITN30 | 7.5 | A | 1 | 1 | X | E1 | Internet Inside | | KS KE U W T | | | | 3 | |
| ETIA10 | 7.5 | G1 | 1 | 1 | X | E | Patent and Intellectual Property Rights | | KS KE U W T | | | | 3 | |
| EITN45 | 7.5 | A | 1 | 1 | X | E | Information Theory | | KS KE U W T | | | | | 4 |
| EITN35 | 7.5 | A | 2 | 2 | - | E1 | Advanced Course in Electrical and Information Technology | X | KS KE U W T | | 1 | | | |
| EITP30 | 7.5 | A | 2 | 2 | X | E | Modern Wireless Systems - 5G and Beyond | | KS KE U W T | | 1 | | | |

| Course Code | Credits | Cycle | Year | From year | S.Ex. stud. | Language | Course Name | Footnote | Links | | | | |
|------------------------|---------|-------|------|-----------|-------------|----------|--|----------|---|-----|-----|-----|-----|
| | | | | | | | | | | sp1 | sp2 | sp3 | sp4 |
| EITN60 | 7.5 | A | 2 | 1 | X | E | Optimum and Adaptive Signal Processing | | KS KE U W T | 1 | | | |
| EITN35 | 7.5 | A | 2 | 2 | - | E1 | Advanced Course in Electrical and Information Technology | X | KS KE U W T | | 2 | | |
| EDIN01 | 7.5 | A | 2 | 1 | X | E1 | Cryptography | | KS KE U W T | | 2 | | |
| EITP10 | 7.5 | A | 2 | 1 | X | E | High Performance Fiber Networks | | KS KE U T | | 2 | | |
| ETSF10 | 7.5 | G2 | 2 | 1 | X | E | Internet Protocols | | KS KE U W T | | 2 | | |
| BMEN15 | 7.5 | A | 2 | 2 | X | E | Signal Separation - Independent Components | | KS KE U W T | | 2 | | |
| EITN35 | 7.5 | A | 2 | 2 | - | E1 | Advanced Course in Electrical and Information Technology | X | KS KE U W T | | | 3 | |

| Course Code | Credits | Cycle | Year | From year | S.Ex. stud. | Language | Course Name | Footnote | Links | | | | | |
|------------------------|---------|-------|------|-----------|-------------|----------|--|----------|--------------------|--------------------|-------------------|-------------------|-------------------|---|
| | | | | | | | | | sp1 | sp2 | sp3 | sp4 | | |
| BMEN20 | 7.5 | A | 2 | 2 | X | E1 | Project Course in Signal Processing – from Idea to App | | KS | KE | U | W | T | 3 |
| EITN35 | 7.5 | A | 2 | 2 | - | E1 | Advanced Course in Electrical and Information Technology | X | KS | KE | U | W | T | 4 |
| ETIN85 | 7.5 | A | 2 | 1 | X | E | Advanced Cryptography | | KS | KE | U | T | | 4 |
| EDAN15 | 7.5 | A | 2 | 1 | X | E | Design of Embedded Systems | | KS | KE | U | W | T | 4 |
| FMSF65 | 7.5 | G2 | 2 | 1 | X | E | Design of Experiments | | KS | KE | U | W | T | 4 |

[EITN35](#) Advanced Course in Electrical and Information Technology: *The course starts only after agreement with the department. The course is not linked to any specific study period. The information on hours depends on the course running over a study period. Individual study plans are to be set up and approved.*

Degree Projects - MWIR

The list contains the degree project courses that are included in the MWIR programme.

Links

| Course Code | Credits | Course Name | Links |
|-------------|---------|---|---|
| EITM02 | 30 | Degree Project in Electrical and Information Technology | KS KE U W |