

Embedded Computing Systems NTNU Curriculum 2015/16

| Elective Program 1st year | | | | | | |
|--|---------|---|---------------|----------|------------|----------|
| | Code | Title | Credit points | Semester | Instructor | Language |
| (all) | TDT4255 | Computer Design | 7.5 | Fall | Jahre | English |
| (all) | TTM4105 | Access and Transport Networks | 7.5 | Fall | Stol | English |
| Communication and Signal Processing, Micro-electronics/ Microsystems | TTT4120 | Digital Signal Processing | 7.5 | Fall | Gajic | English |
| Micro-electronics/ Microsystems | TFE4186 | Analog CMOS 1 | 7.5 | Fall | Ytterdal | English |
| Embedded Systems, Automation & Control | TDT4258 | Low-Level Programming | 7.5 | Spring | Tufte | English |
| Embedded Systems | TFE4171 | Design of Digital Systems 2 | 7.5 | Spring | Svarstad | English |
| Embedded Systems, Automation & Control | TDT4205 | Compiler Construction | 7.5 | Spring | Elster | English |
| Embedded Systems, Automation & Control | TDT4173 | Machine Learning and Case-Based Reasoning | 7.5 | Fall | Aamodt | English |
| Embedded Systems, Automation & Control | TTK4195 | Modeling and Control of Robots | 7.5 | Spring | Shiriaev | English |
| Communication and Signal Processing | TTT4115 | Communication Theory | 7.5 | Spring | Ekman | English |

1st year students need to choose at least 2 courses (15 ECTS) from these electives

| Elective Program 2nd year | | | | | | |
|-------------------------------------|---------|--|---------------|----------|--------------|----------|
| | Code | Title | Credit points | Semester | Instructor | Language |
| Embedded Systems | TFE4141 | Design of Digital Systems 1 | 7.5 | Fall | Gjermundsnes | English |
| | TDT4258 | Low-Level Programming | 7.5 | Spring | Tufte | English |
| | TFE4525 | Design of digital systems - specialization courses ⁺¹ | 7.5 | Fall | Svarstad | English |
| | TFE4520 | Design of digital systems - term project ⁺² | 7.5 | Fall | Svarstad | English |
| | TDT4592 | Computer Design and Architecture, Specialization Project ⁺² | 7.5 (15) | Fall | Tufte | English |
| | TDT4597 | Computer Design and Architecture, Specialization Course ⁺¹ | 7,5 | Fall | Tufte | English |
| Communication and Signal Processing | TTT4130 | Digital Communication | 7.5 | Fall | Kansanen | English |
| | TTT4135 | Multimedia Signal processing | 7.5 | Fall | Perkis | English |
| | TTT4515 | Communication Systems - Specialization course ⁺¹ | 7.5 | Fall | Kansanen | English |
| | TTT4511 | Communication Systems - Specialization project ⁺² | 7.5 | Fall | Kansanen | English |
| Automation & Control | TTK4147 | Real-Time Systems | 7.5 | Fall | Skavhaug | English |
| | TTK4155 | Embedded systems | 7.5 | Fall | Alfredsen | English |
| | TTK4555 | Dedicated Computer Systems - specialization courses ⁺¹ | 7.5 | Fall | Onshus | English |
| | TTK4551 | Dedicated Computer Systems - specialization project ⁺² | 7.5 | Fall | Onshus | English |

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|--|----------------|--|-----|------|----------|---------|
| Micro-electronics/ Microsystems | TFE4187 | Analog CMOS 1 | 7.5 | Fall | Ytterdal | English |
| | TFE4525 | Design of digital systems - specialization courses ⁺¹ | 7.5 | Fall | Aunet | English |
| | TFE4521 | Design of digital systems - term project ⁺² | 7.5 | Fall | Aunet | English |
| | TFE4541 | Analog and Mixed Design, Specialization Project ⁺² | 7.5 | Fall | Ytterdal | English |
| | TFE4545 | Analog and Mixed Design, Specialization Course ⁺¹ | 7.5 | Fall | Ytterdal | English |

2nd year students need to choose at least 4 courses (30 ECTS) from these electives for the fall semester, of which one should be a term project⁺², and one a specialisation course⁺¹.