

# IT Master Programs at TTÜ / TalTech – Future Plans...

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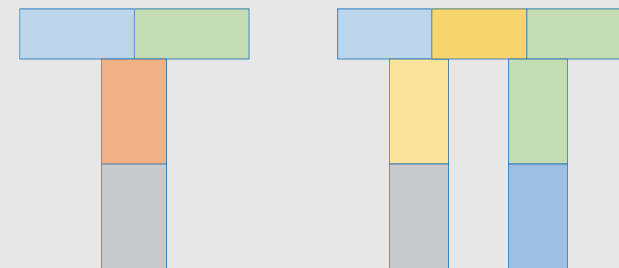
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# Master Programs – Applications

	2021	2020	2019
• IASM02/18 <u>Computer and Systems Engineering</u>	9+31	19+8	10+54
• IVGM13/18 <u>E-Governance Technologies and Services</u>	16+28	9+11	5+82
• IVEM11/20 <u>Communicative Electronics</u>	7+13	16+5	11+34
• IAPM02/18 Computer Science	53	75	54
• IAAM17/19 Analysis and Design of Information Systems	147	181	128
• IAHM19/21 <u>Medical Technology and -Physics</u>	19	20	16
• YVEM09/21 <u>Digital Health</u>	37+9	44+3	24+56
• IABM02/20 Business Information Technology	83	108	41
• IADM18/18 Digital Transformation in Business	96	104	122
• IVCM09/21 <u>Cybersecurity (+UT)</u>	30+32	39+16	18+127
• IVSM09/18 <u>Software Engineering (+UT)</u>			

# Problems & Solutions

- Rather many courses with similar content in different study programs
- Sharing not only courses but blocks of courses between study programs
- T-shape / Comb-shape programs
  - Wide basics
  - Narrow specializations



# Solutions & Problems

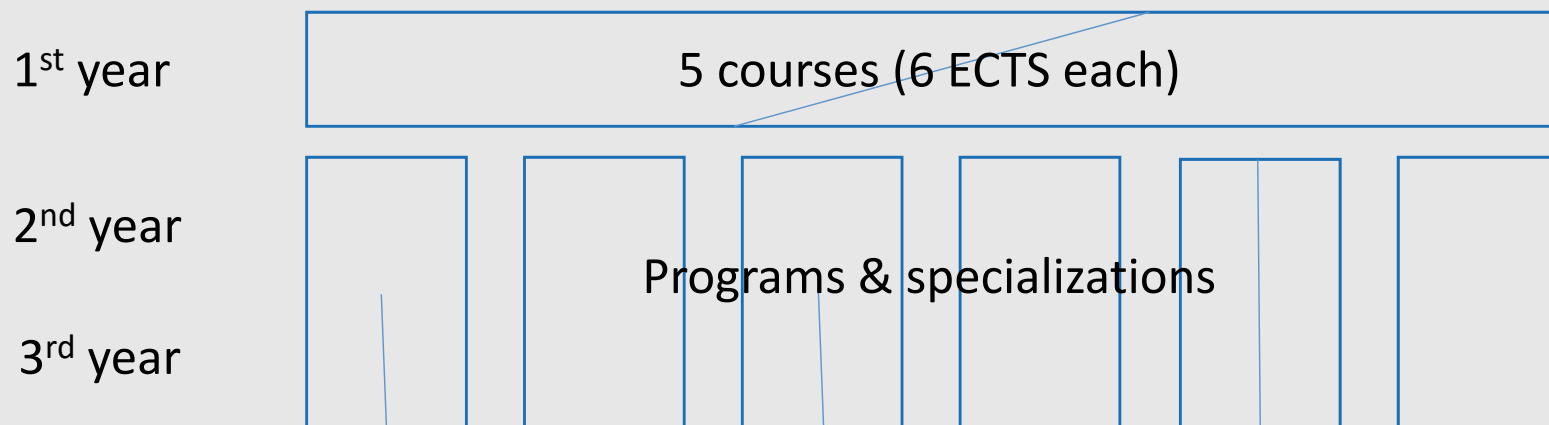
- Micro-degree == block of course
- Study program == set of micro-degrees
  - Is it possible?
  - What are complications?
- Different study programs
  - Share blocks not courses?
- The same between engineering & IT
  - Electronics at different levels to start with?

# The New Programs – 😊 / ☹️

- Courses 3, 6, 9 etc. ECTS
  - Earlier 1-6 ECTS – no regularity
  - The good (?)
    - Replacements simplified – student mobility, continuing earlier studies, etc.
    - Easier to schedule lectures, labs, etc.
    - Motivation to upgrade courses
  - The bad (?)
    - Hard to merge apples and oranges
    - More professors/lecturers involved in a course – but who is the responsible one?
    - 5 → 6 ECTS – no actual change too often → courses have different levels of difficulty...

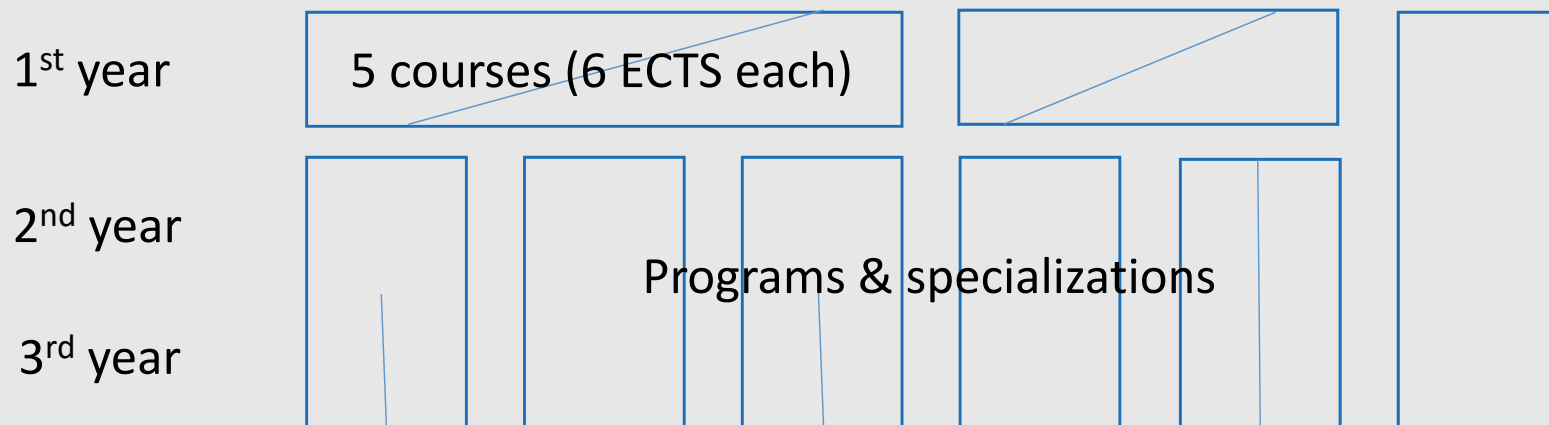
# IT bachelor programs

- The dream 😊
  - Common (or replaceable) courses in the first year
    - Easy to move between study programs
  - Sharing courses in the following years
    - Flexible sets of elective courses (tracks?)



# IT bachelor programs

- The reality ☹
  - No common 1<sup>st</sup> year courses in some programs
    - Not enough time to reach the common ground
  - Common courses in different years
    - Certain topics are taught at different times



# Solutions?

- Reorganizing programs based on experiences from the other universities
  - It is hard to select between so many versions
- Current situation - one program (one specialization)
  - Some programs have minor specialty modules for students from the other programs / specializations
- A possible solution – forget specializations, use tracks (of topics areas)
  - Two/three tracks must be followed (out of five/six/...)
  - Tracks have (overlapping) compulsory and elective courses