Hanze University of Applied Sciences Groningen

Information & Communication Technololgy, Major SE

Programme	EC
Year 1 Major SE	60
Website Development	15
ITVP16WEB1 - Project Website Development	5
ITVP18WEB2 - Databases 1	4
ITVP18WEB3 - Web Programming (PHP)	4
ITVP19WEB4 - Presentation Skills	1
ITVP19WEB5 - International Communication 1	1
Design & Build	15
ITVP19DAB1A - Project Design & Build	3
ITVP15DAB2 - Human Computer Interaction	1
ITVP19DAB3 - Project Management 1	2
ITVP19DAB4 - Object Oriented Programming 1	6
ITVP19DAB7 - Basic Conversation Skills	1
ITVP19DAB8 - International Communication 2	1
ITVP19DAB9 - Configuration Management	1
IT Service Management & Security	15
ITVP15ITS1 - Project IT Service Management & Security	3
ITVP18ITS2 - IT Service Management	3
ITVP18ITS3 - Infrastructures	2
ITVP18ITS4 - Security Awareness	3
ITVP17ITS5 - Mathematics	3
ITVP19ITS6 - Workshop C&S 1 Professional Orientation	1
Data Analysis & Data Visualisation	15
ITVP19DAV1A - Project Data Analysis & Data Visualisation	2
ITVP18DAV2 - Databases 2	4
ITVP18DAV4 - Statistics	3
ITVP18DAB6 - Object Oriented Programming 2	3
ITVP17DAV5 - Reporting for ICT	2
ITVP19DAV6 - Workshop C&S 2	1
Year 2 Major SE	60
2.1 Computer Systems	15
ITVB19CS1 - Project Embedded Systems	3
ITVB19CS2 - Computer Architecture & Design	4
ITVB19CS3 - Practical Training Embedded Systems	3
ITVB19CS4 - Python	3
ITVB19COM1 - Communication Skills 1	2
2.2 IT Infrastructures I	15
ITVB16ITI1 - Project IT Infrastructures	2
ITVB18ITI2 - Network Infrastructures	4
ITVB18ITI3 - Operating Systems	4
ITVB19COM2 - Intercultural Communication	2
ITVB18OND1 - Research Strategies and Methods 1	3
2.3 Software Engineering	15
ITVB17SE1 - Project Software Engineering	4
ITVB18SE2 - Object Oriented Programming-3 & Design Patterns	4
ITVB19SE3 - Algorithms & Data Structures	4
ITVB19COM3 - Academic Writing	3
2.4 Web & Mobile	15
ITVB19WMS1 - Project Web & Mobile Services	4
ITVB19WMS2 - Web & Mobile Services	6
ITVB19COM4 - Research and Reporting	5
Year 3 Major SE	60
Electives *electives*	30
Internship *one of following courses*	30
Internship	30
ITVB18STG - Internship	29
ITVB18STC - Communication Written	1
Internship Abroad	30
ITVB18STB - Internship Abroad	29

- ITVB18STC - Communication Written *1*

Year 4 Major SE 60

- Software Engineering I *15*
  - ITVB18SEN1 - Project Software Engineering I *5*
  - ITVB18SEN2 - Software Development Lifecycle (Assignments I) *2*
  - ITVB18SEN3 - Artificial Intelligence *4*
  - ITVB18SEN4 - Software Development Lifecycle (exam) *2*
  - ITVB18COM5 - Team Development and Personal Leadership *2*
- Software Engineering II *15*
  - ITVB18SEN5 - Project Software Engineering II *7*
  - ITVB18SEN6 - Software Development Lifecycle (Assignments II) *3*
  - ITVB18SEN7 - Software Development Lifecycle (assessment) *2*
  - ITVB18VPO - Advanced Practical Research *3*
- Graduation *30*

  one of following courses
  - Graduation Project *30*
    - ITVB18ASO - Graduation Project *30*
  - Graduation Project Abroad *30*
    - ITVB18ASOB - Graduation Project Abroad *30*

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