

## IMPIT – Master’s Degree Programme (120 ECTS)

### Curriculum at 2021-2022

	<b>General studies</b>	<b>ECTS</b>
<b>3621112</b>	Preparing Personal Study Plan (cs, MSc)	1
<b>8031003</b>	University Study Skills	1
	<b>Language studies</b>	
<b>8014301</b>	Finnish 1	4
	<b>Advanced studies in Computer Science, minimum of 94 ECTS</b>	
	<i>Mandatory advanced courses</i>	
<b>3621566</b>	IMPIT-seminar	2
<b>3621535</b>	Master’s Project in Computer Science <b>or</b>	10-20
<b>3621536</b>	Practical Training in MSc (Computer Science)	10-20
<b>3621592/3</b>	MSc thesis and Master's Essay	30
	<i>Optional mandatory courses, must do at least two of below advanced courses (12 ECTS):</i>	
<b>3621511</b>	Design and Analysis of Algorithms	6
<b>3621512</b>	Software Engineering	6
<b>3621513</b>	Research Methods in Computer Science	6
<b>3621517</b>	Pattern Recognition	6
<b>3621688</b>	Artificial Intelligence	6
	<i>Other advanced level courses in computer science to fulfil the minimum of 94 ECTS</i>	20-30
	<b>Optional and minor subject studies</b>	0-20
	<b>TOTAL</b>	<b>120 ECTS</b>

Syksyllä 2019 ja aiemmin aloittaneet IMPIT -opiskelijat voivat halutessaan siirtyä uuteen tutkintorakenteeseen. Tällöin heidän ei tarvitse suorittaa Finnish 1 (4 ECTS) ja University Study Skills (1 ECTS) –opintojaksoja. Tässä tapauksessa näiden opiskelijoiden on tehtävä vastaava määrä opintopisteitä vapaasti valittaviin tai sivuaineopintoihin (Optional and minor subject studies).

TUT-UEF Double Degree MSc Program in Computer Science and Engineering (Toyohashi University of Technology and University of Eastern Finland), 120 ECTS

**Curriculum at 2021 – 2022 for a) students starting at UEF and for b) students starting at TUT**

**a) for students starting at UEF (“Finnish” students), 120 ECTS**

<b>General studies 9 ECTS:</b>		<b>ECTS</b>
<b>3621112</b>	Personal study plan	1
	General non-computer science courses (incl. mandatory Ethics for Researchers) (transferred from TUT)	4
<b>8013300 OR 8013328</b>	Advanced English Academic and Professional Communication	2
	Freely selected courses (at UEF)	2
<b>Advanced level studies in computer science 111 ECTS:</b>		
<b>3621592</b>	Master's Thesis in Computer Science	30
<b>3621513</b>	Research Methods in Computer Science	6
	Presentation and debate for international students (TUT-UEF DD seminar)	2
	Introduction to research and scientific literature	3
<b>3621535</b>	Master's Project in Computer Science	10
	Elective advanced level computer science courses (from UEF)	20
<b>3621536</b>	Practical Training in MSc (Industrial internship in computer science in Japan)	12
	Elective advanced level computer science courses (transferred from TUT)	12
	Seminar for Computer Science and Engineering 1 & 2 (transferred from TUT)	10
	<i>Choose one of the following courses (6 ECTS):</i>	
<b>3621511</b>	Design and Analysis of Algorithms	6
<b>3621512</b>	Software Engineering	6
<b>3621688</b>	Artificial Intelligence	6
<b>3621517</b>	Pattern Recognition	6
	<b>TOTAL</b>	<b>120 ECTS</b>

**b) for students starting at TUT (Japanese students), 120 ECTS**

<b>General studies 14 ECTS:</b>		<b>ECTS</b>
<b>3621112</b>	Personal study plan	1
	General non-computer science courses (incl. mandatory Ethics for Researchers) (transferred from TUT)	4
	Freely selected studies (may include English & university study skills)	4
<b>2124908</b>	Cultural studies perspectives on Finnish culture	5
<b>Advanced level studies in computer science 106 ECTS:</b>		
<b>3621592</b>	Master's Thesis in Computer Science	30
	Introduction to research and scientific literature	3

<b>3621535</b>	Master's Project in Computer Science	10
<b>3621513</b>	Research Methods in Computer Science	6
	Presentation and debate for international students (TUT-UEF DD seminar)	2
<b>3621536</b>	Practical Training in MSc (Industrial internship in computer science in Japan)	12
	Elective advanced level computer science courses (from UEF)	15
	Elective advanced level computer science courses (transferred from TUT)	12
	Seminar for Computer Science and Engineering 1 & 2 (transferred from TUT)	10
	<i>Choose one of the following courses (6 ECTS):</i>	
<b>3621511</b>	Design and Analysis of Algorithms	6
<b>3621512</b>	Software Engineering	6
<b>3621688</b>	Artificial Intelligence	6
<b>3621517</b>	Pattern Recognition	6
	<b>TOTAL</b>	<b>120 ECTS</b>