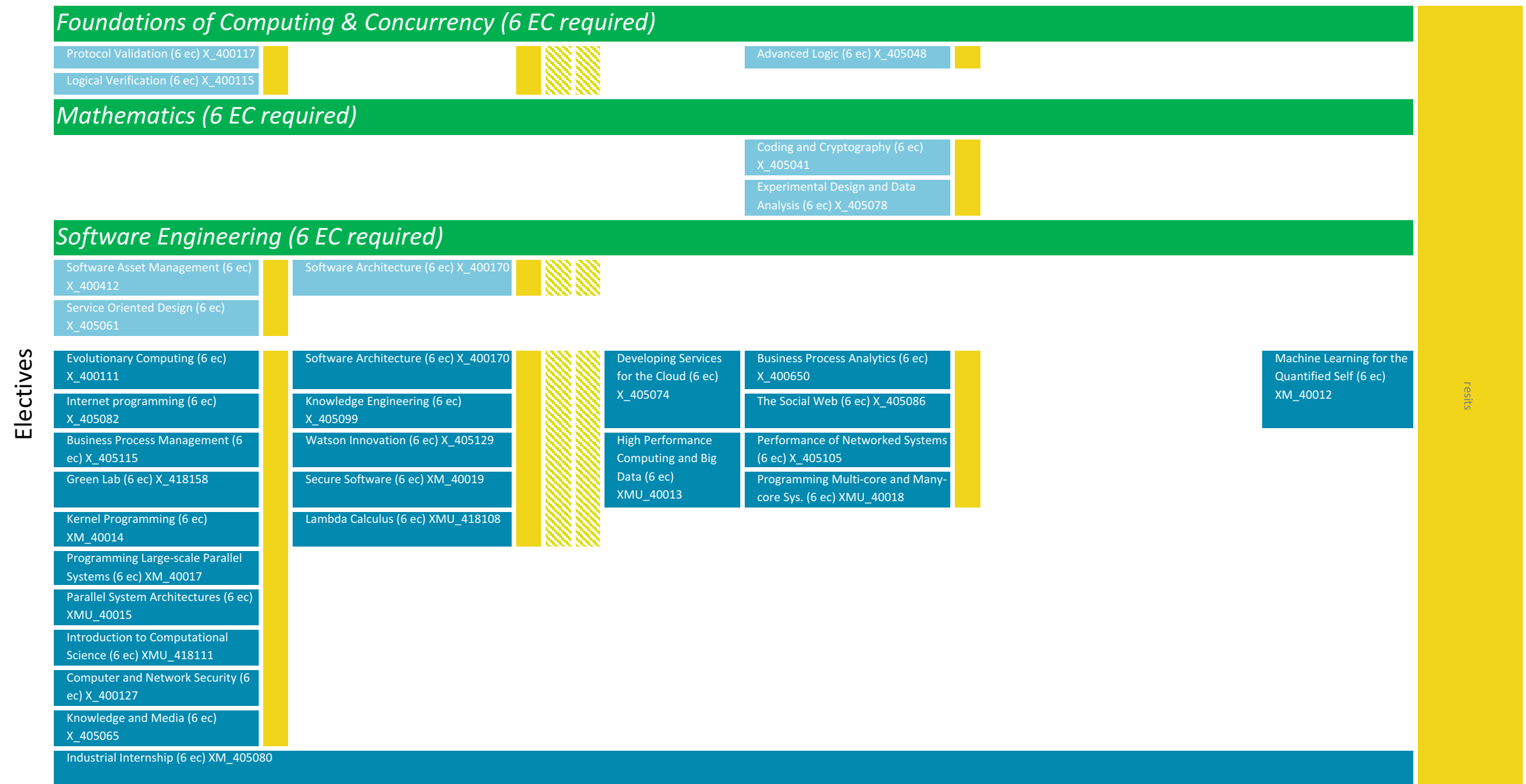
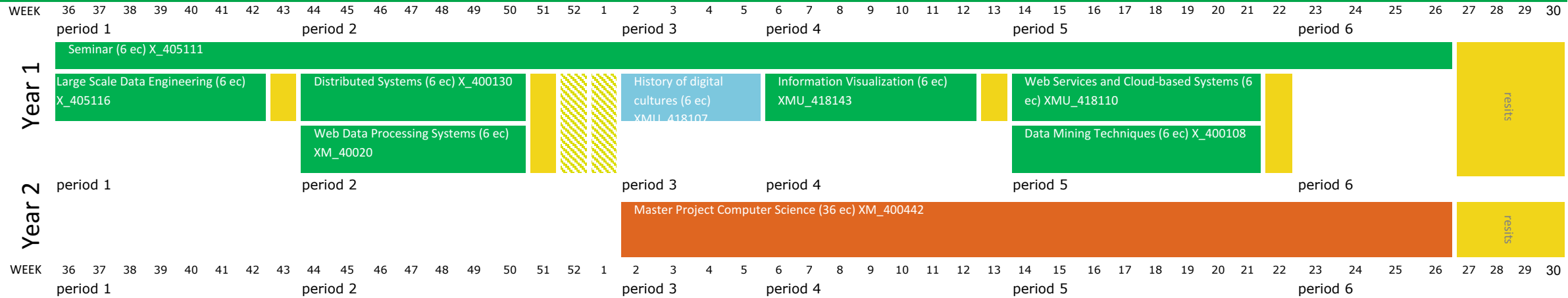
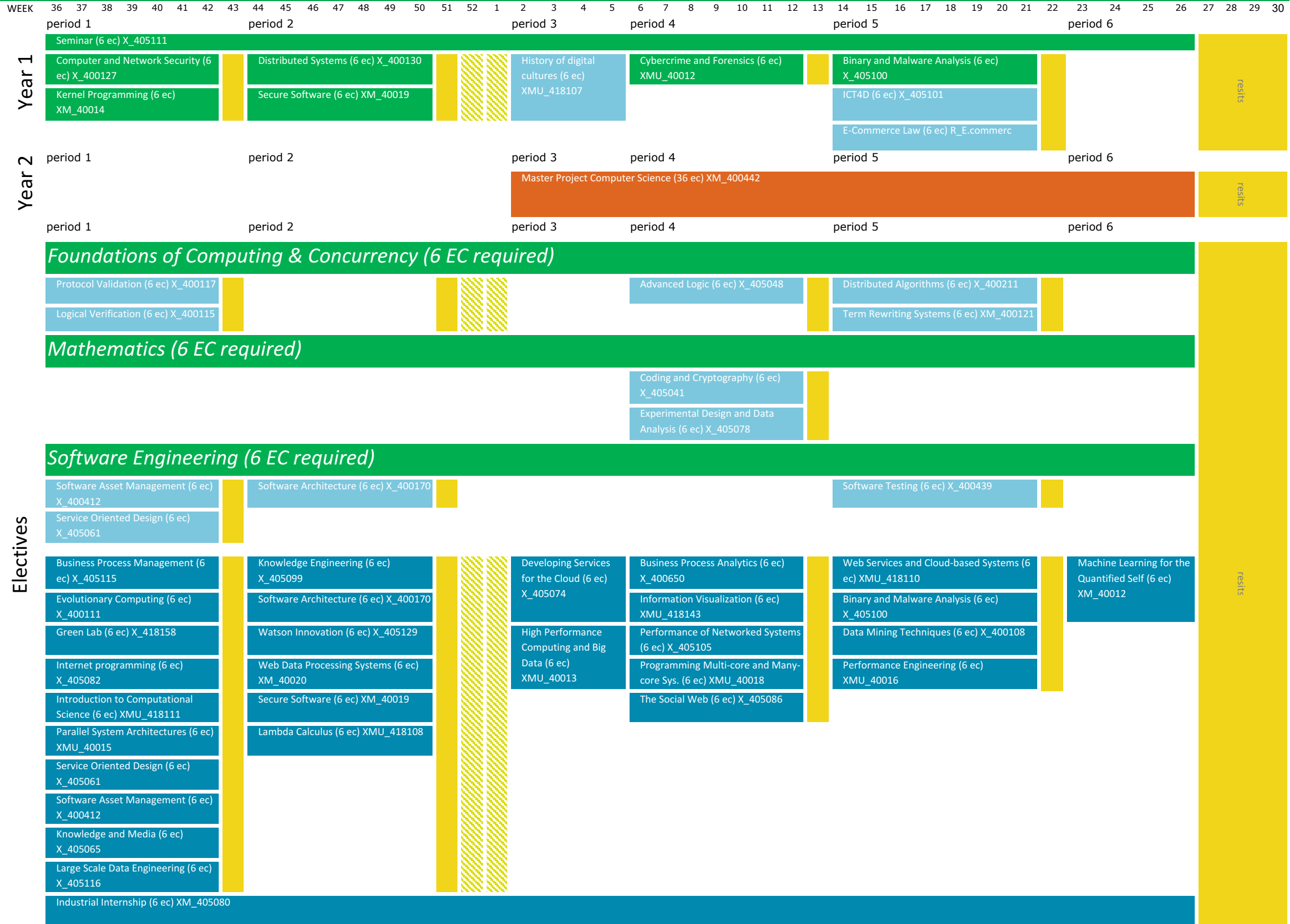


# Year Schedule Master Computer Science 2017 - 2018

## Specialization Big Data Engineering



# Specialization Computer Systems Security



## Specialization Foundations of Computing and Concurrency

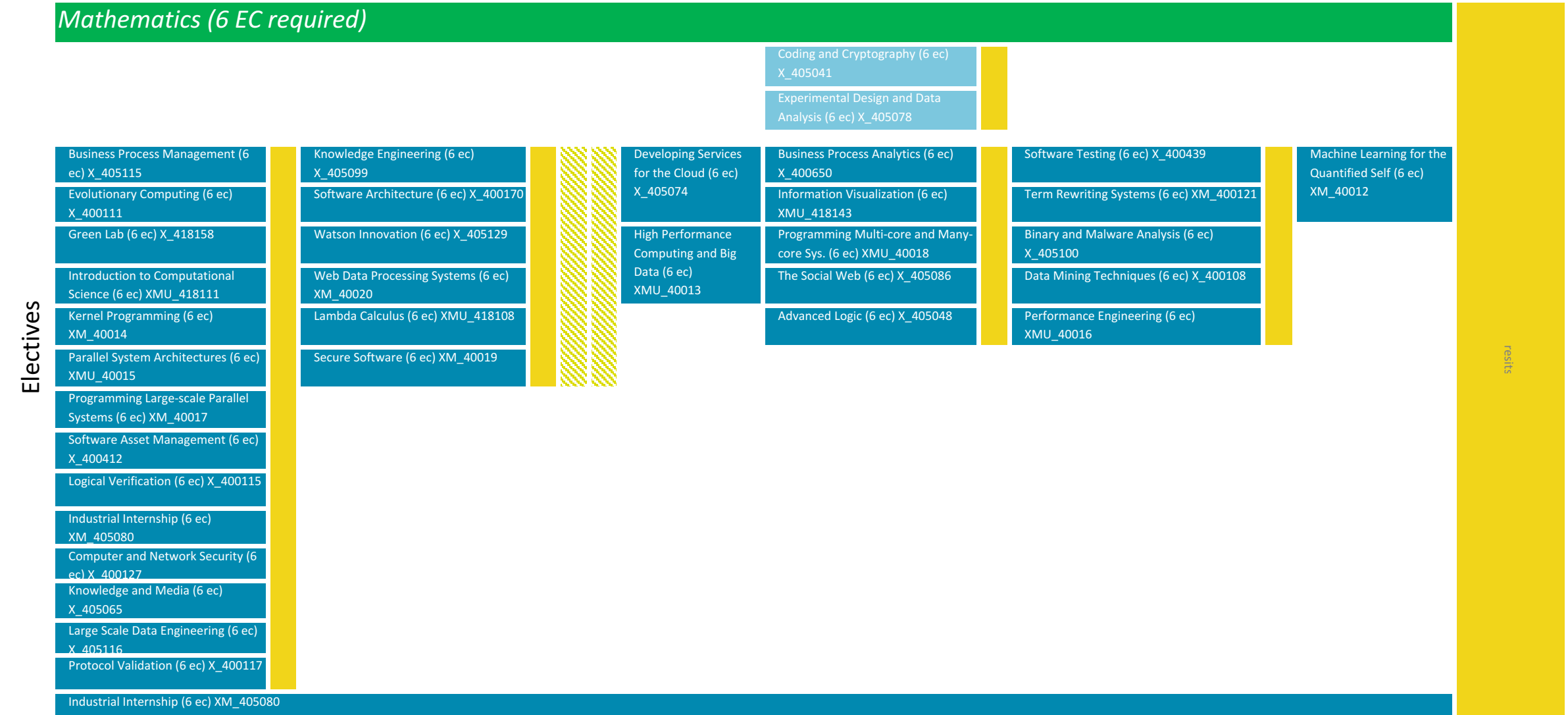
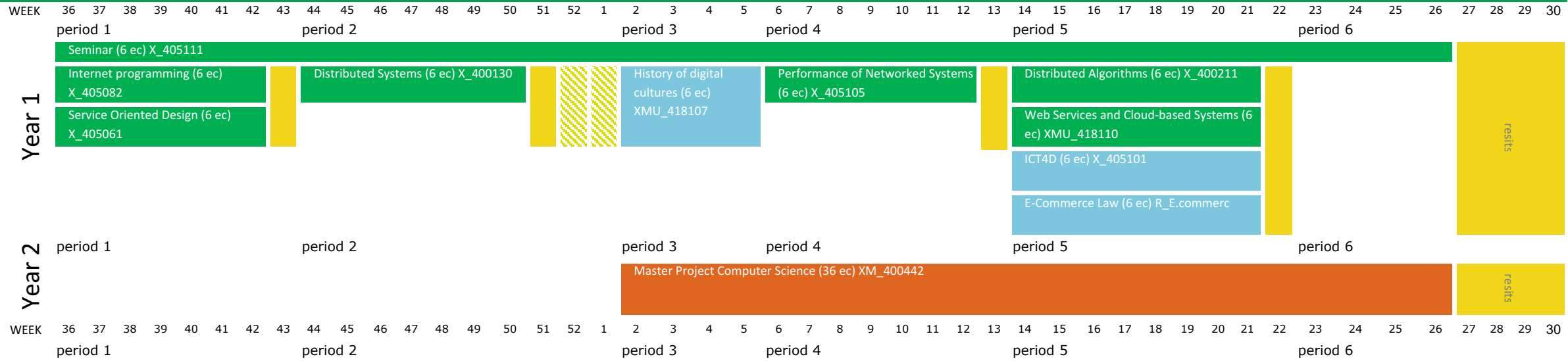
WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	period 1				period 2				period 3				period 4				period 5				period 6																										
Year 1	Seminar (6 ec) X_405111																																														
	Protocol Validation (6 ec) X_400117				Distributed Systems (6 ec) X_400130				History of digital cultures (6 ec) XMU_418107				Advanced Logic (6 ec) X_405048				Distributed Algorithms (6 ec) X_400211				Term Rewriting Systems (6 ec) XM_400121				resits																						
Year 2	Master Project Computer Science (36 ec) XM_400442																																														
	period 1				period 2				period 3				period 4				period 5				period 6				resits																						

WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	period 1				period 2				period 3				period 4				period 5				period 6																										
<b>Mathematics (6 EC required)</b>																																															
Coding and Cryptography (6 ec) X_405041																																															
Experimental Design and Data Analysis (6 ec) X_405078																																															

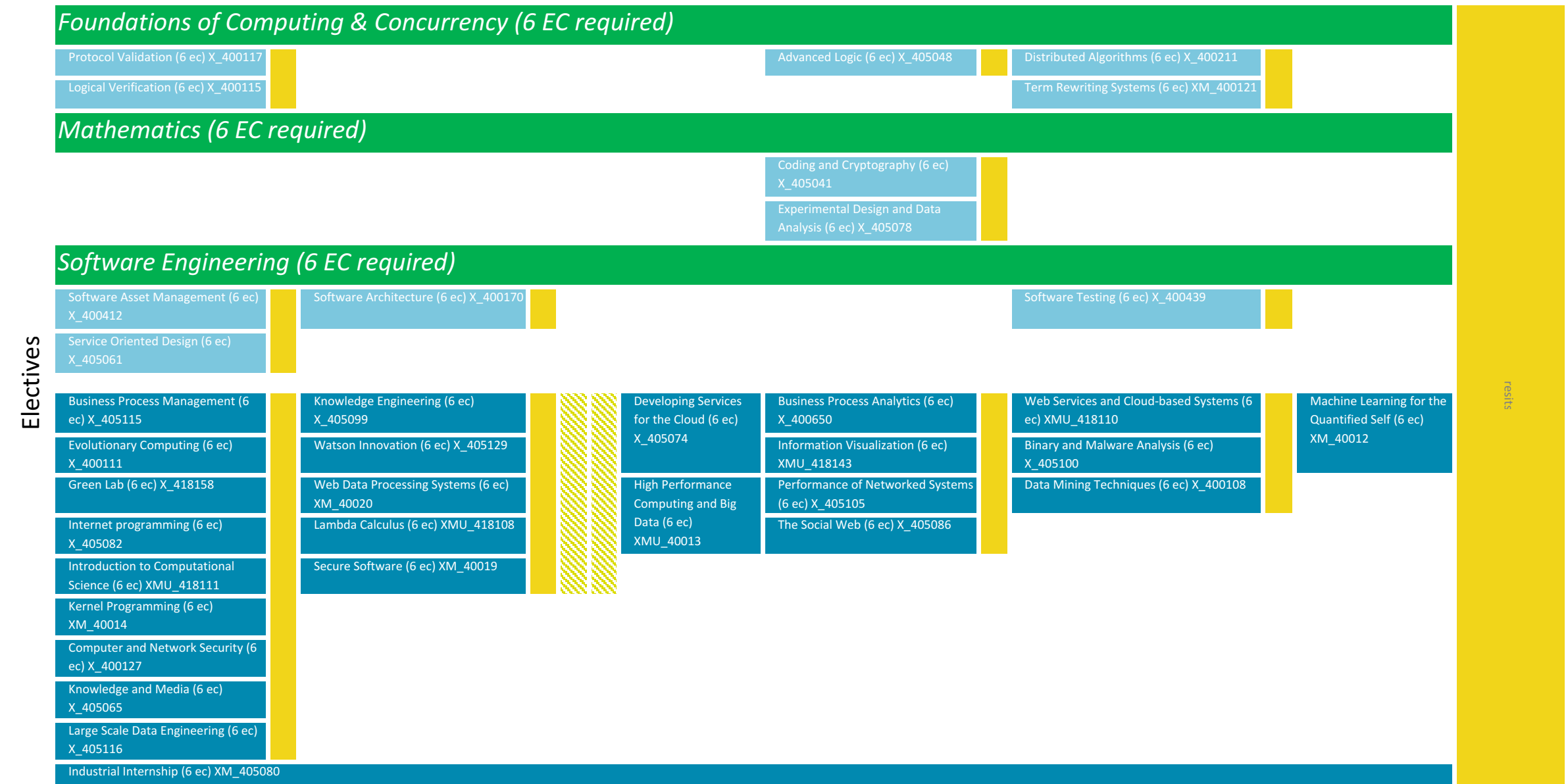
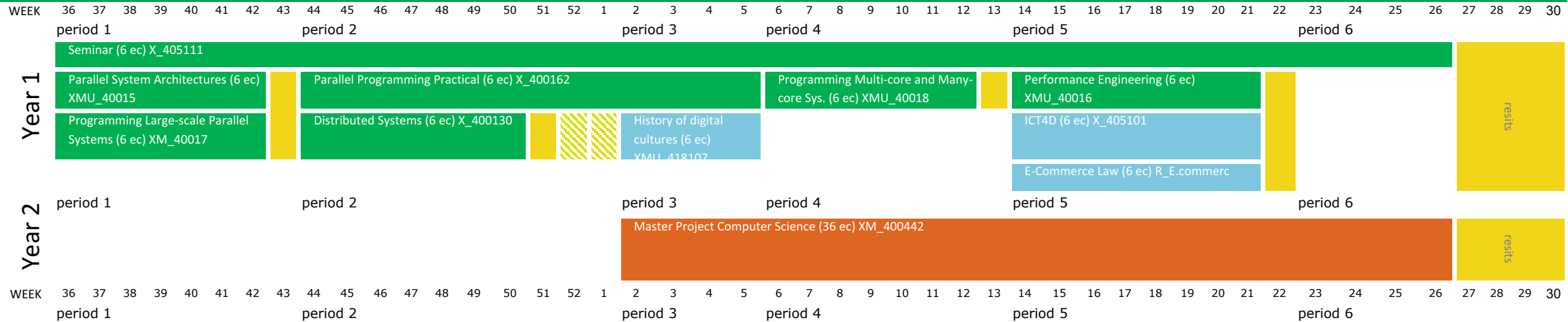
<b>Programming (6 EC required)</b>																													
Individual Systems Practical(6 ec) XM_405088																													
Internet programming (6 ec) X_405082				Parallel Programming Practical (6 ec) X_400162				Programming Multi-core and Many-core Syg (6 ec) XMU_40018				Android Lab (6 ec) XM_40011																	
Kernel Programming (6 ec) XM_40014				Concurrency and Multithreading (6 ec) X_405064												Software Testing Practical (6 ec) X_405124													

<b>Software Engineering (6 EC required)</b>																													
Software Asset Management (6 ec) X_400412				Software Architecture (6 ec) X_400170								Software Testing (6 ec) X_400439																	
Service Oriented Design (6 ec) X_405061																													
Business Process Management (6 ec) X_405115				Knowledge Engineering (6 ec) X_405099				Developing Services for the Cloud (6 ec) X_405074				Business Process Analytics (6 ec) X_400650				ICT4D (6 ec) X_405101				Machine Learning for the Quantified Self (6 ec) XM_40012									
Evolutionary Computing (6 ec) X_400111				Watson Innovation (6 ec) X_405129				High Performance Computing and Big Data (6 ec) XMU_40013				Information Visualization (6 ec) XMU_418143				E-Commerce Law (6 ec) R_E.commerc													
Green Lab (6 ec) X_418158				Web Data Processing Systems (6 ec) XM_40020								Performance of Networked Systems (6 ec) X_405105				Web Services and Cloud-based Systems (6 ec) XMU_418110													
Parallel System Architectures (6 ec) XMU_40015				Lambda Calculus (6 ec) XMU_418108								The Social Web (6 ec) X_405086				Binary and Malware Analysis (6 ec) X_405100													
Programming Large-scale Parallel Systems (6 ec) XM_40017				Secure Software (6 ec) XM_40019												Data Mining Techniques (6 ec) X_400108													
Logical Verification (6 ec) X_400115																Performance Engineering (6 ec) XMU_40016													
Computer and Network Security (6 ec) X_400127																													
Knowledge and Media (6 ec) X_405065																													
Large Scale Data Engineering (6 ec) X_405116																													
Industrial Internship (6 ec) XM_405080																													

## Specialization Internet and Web Technology



## Specialization Parallel Computing Systems



## Specialization Software Engineering and Green IT

WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	period 1						period 2						period 3						period 4						period 5						period 6																
Year 1	Seminar (6 ec) X_405111																																														
	Green Lab (6 ec) X_418158						Distributed Systems (6 ec) X_400130						History of digital cultures (6 ec) XMU_418107						Software Testing (6 ec) X_400439						rests																						
	Service Oriented Design (6 ec) X_405061						Software Architecture (6 ec) X_400170												ICT4D (6 ec) X_405101						E-Commerce Law (6 ec) R_E.commerc																						

WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	period 1						period 2						period 3						period 4						period 5						period 6																
Year 2	Master Project Computer Science (36 ec) XM_400442																																														
	rests																																														

WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	period 1						period 2						period 3						period 4						period 5						period 6																

### Foundations of Computing & Concurrency (6 EC required)

Protocol Validation (6 ec) X_400117												Advanced Logic (6 ec) X_405048						Distributed Algorithms (6 ec) X_400211					
Logical Verification (6 ec) X_400115																		Term Rewriting Systems (6 ec) XM_400121					

### Mathematics (6 EC required)

Coding and Cryptography (6 ec) X_405041					
Experimental Design and Data Analysis (6 ec) X_405078					

### Programming (6 EC required)

Individual Systems Practical(6 ec) XM_405088																													
Internet programming (6 ec) X_405082						Parallel Programming Practical (6 ec) X_400162						Programming Multi-core and Many-core Syg (6 ec) XMU_40018						Android Lab (6 ec) XM_40011											
Kernel Programming (6 ec) XM_40014						Concurrency and Multithreading (6 ec) X_405064												Software Testing Practical (6 ec) X_405124											

Electives

Business Process Management (6 ec) X_405115						Knowledge Engineering (6 ec) X_405099						Developing Services for the Cloud (6 ec) X_405074						Business Process Analytics (6 ec) X_400650						Web Services and Cloud-based Systems (6 ec) XMU_418110						Machine Learning for the Quantified Self (6 ec) XM_40012					
Evolutionary Computing (6 ec) X_400111						Watson Innovation (6 ec) X_405129												Information Visualization (6 ec) XMU_418143						Binary and Malware Analysis (6 ec) X_405100											
Internet programming (6 ec) X_405082						Web Data Processing Systems (6 ec) XMU_40020						High Performance Computing and Big Data (6 ec) XMU_40013						Performance of Networked Systems (6 ec) X_405105						Data Mining Techniques (6 ec) X_400108											
Introduction to Computational Science (6 ec) XMU_418111						Lambda Calculus (6 ec) XMU_418108												The Social Web (6 ec) X_405086						Performance Engineering (6 ec) XMU_40016											
Kernel Programming (6 ec) XM_40014						Secure Software (6 ec) XM_40019																													
Parallel System Architectures (6 ec) XMU_40015																																			
Programming Large-scale Parallel Systems (6 ec) XM_40017																																			
Software Asset Management (6 ec) X_400412																																			
Computer and Network Security (6 ec) X_400127																																			
Knowledge and Media (6 ec) X_405065																																			
Large Scale Data Engineering (6 ec) X_405116																																			
Industrial Internship (6 ec) XM_405080																																			

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