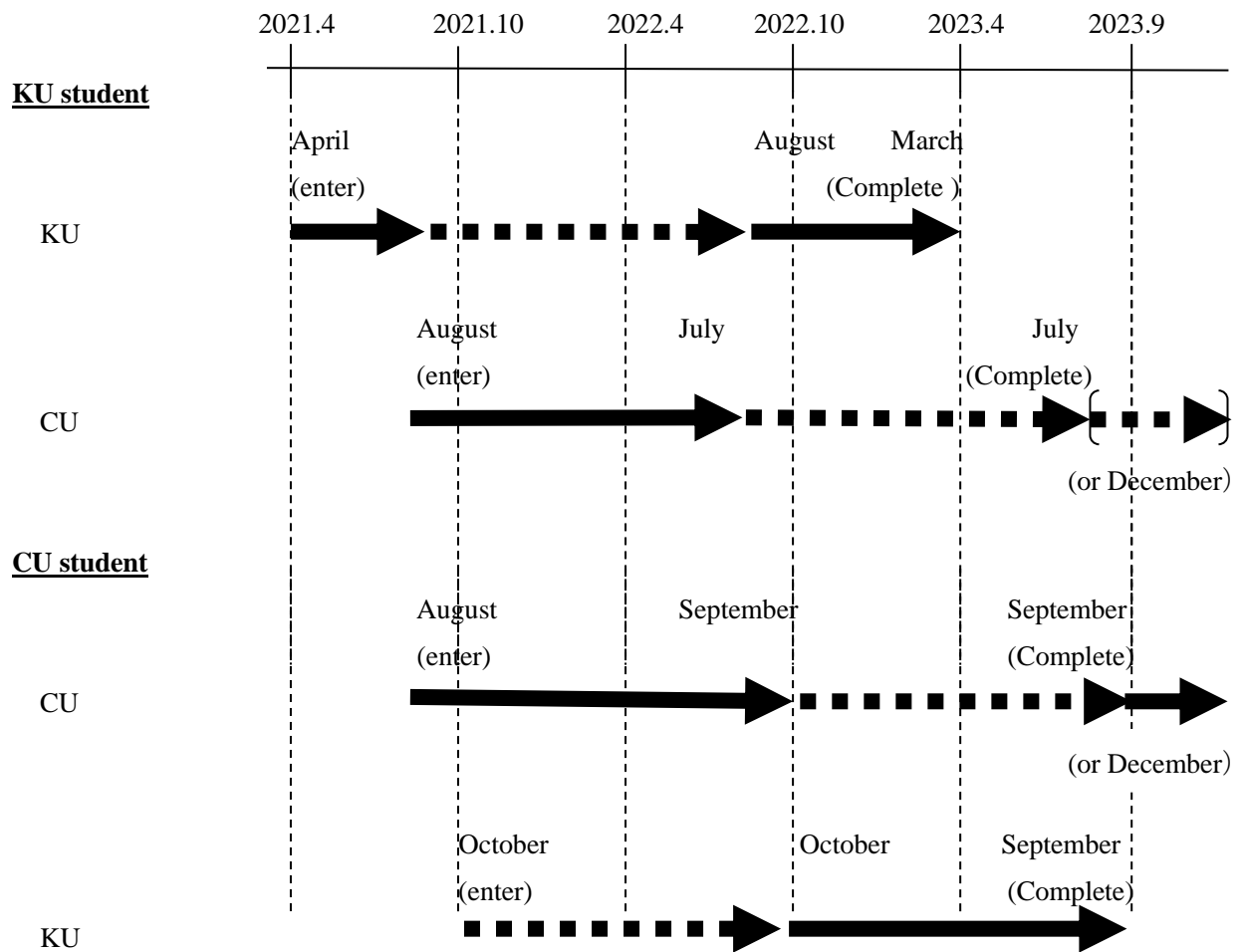


Annex 1

Kanazawa University (KU) - Chulalongkorn University (CU), DDP model timeline



Note: The official period of enrollment in the master's program at Chulalongkorn University is two years, many students extend one semester and complete in 2.5 years. Therefore, students who participate in the double degree program are allowed to earn credits from Chulalongkorn University in 2.5 years.

Annex 2

Table for credit transfer (from Kanazawa University (KU) to Chulalongkorn University (CU))

Kanazawa University	credits	Chulalongkorn University	credits
Elective subject 1	1	Elective subject 1	3
Elective subject 2	1	Elective subject 2	3
Elective subject 3	1		
Elective subject 4	1		
Elective subject 5	1		
Elective subject 6	1		
Elective subject 7	1	Elective subject 3	3
Elective subject 8	1	Elective subject 4	3
Elective subject 9	1		
Elective subject 10	1		
Elective subject 11	1		
Elective subject 12	1		

Note: The maximum number of credits that can be transferred from Kanazawa University to Chulalongkorn University is 12, and Elective Course 1 to 12 must be selected from Global standard subjects, basic subjects and specialized subjects. For six selective subjects in KU, 6 credits in CU will be transferred at once. The six elective subjects will be chosen in coordination with Chulalongkorn University.

Note: The maximum number of credits that can be transferred from Chulalongkorn University to Kanazawa University is 6 credits, and for three Elective subjects in CU, 6 credits in KU will be transferred at once. The three elective subjects will be chosen in coordination with Chulalongkorn University.





## Annex 5

## Kanazawa University:Subjects scheduled to be offered

Subjects	credits	Course Model		
		Math.	Comp.Sci.	
			Comp.Math.	Comp. Phys.
Compulsory : 21 credits				
Global Standard Subjects				
Research Ethics	1	*	*	*
Research subject				
Methodology of Science A	4	*	*	
Methodology of Science B	4			*
Utilization of Scientific instruments A	4	*	*	
Utilization of Scientific instruments B	4			*
Scientific Presentation A	4	*	*	
Scientific Presentation B	4			*
Research Work A	8	*	*	
Research Work B	8			*
Elective : 10 credits (+6 credits for transfer to CU) (2 credits from 'Global Standard' and 4 credits from 'Specialized')				
Global Standard Subjects				
Topics in Mathematical Science a	1	*	(*)	
Topics in Mathematical Science b	1	*	(*)	
Topics in Computational Science a	1	(*)	*	*
Topics in Computational Science b	1	(*)	*	*
Mathematical and Data Science A	1			
Mathematical and Data Science B	1			
Introductory subjects for foreign students				
Lectures for Foreign Students Ia	1	*	*	*
Lectures for Foreign Students Ib	1	*	*	*
Basic				
Algebra Ia	1			
Algebra Ib	1			
Geometry Ia	1			
Geometry Ib	1			
Analysis Ia	1	*	(*)	
Analysis Ib	1	*	(*)	
Introduction to Frontiers of Computational Science a	1			(*)
Introduction to Frontiers of Computational Science b	1			(*)
Computational Solid State Physics	2			
Computational Nanoscience a	1			(*)
Computational Nanoscience b	1			(*)
Computational Chemistry and Bioscience a	1			
Computational Chemistry and Bioscience b	1			
Introduction to Computational Experimentation Science a	1			*
Introduction to Computational Experimentation Science b	1			*
Basics of Discrete Mathematics a	1	(*)	(*)	
Basics of Discrete Mathematics b	1	(*)	(*)	
Basics of Applied Analysis a	1	(*)	*	(*)
Basics of Applied Analysis b	1	(*)	*	(*)
Specialized				
Algebra IIa	1			
Algebra IIb	1			
Geometry Ia	1			
Geometry Ib	1			
Analysis IIa	1	*		
Analysis IIb	1	*		
Mathematics Education a	1			
Mathematics Education b	1			
Computational Experimentation Science a	1			*
Computational Experimentation Science b	1			*
Applied Computational Science a	1			*
Applied Computational Science b	1			*
Discrete Mathematics a	1		*	
Discrete Mathematics b	1		*	
Applied Analysis a	1	*	*	
Applied Analysis b	1	*	*	

(\*) : Subjects for credits transfer.

Annex 6

Chulalongkorn University: Subjects scheduled to be offered

Program in Mathematics		Program in Applied Mathematics and Computational Science	
Compulsory		Compulsory	
Computer Tools in Mathematics	(2)	Fundamentals of AMCS	(3)
Seminar	(1)	AMCS Seminar I	(1)
Research in Mathematics I	(3)	AMCS Seminar II	(1)
Compulsory : 9 credits (2 subject groups must be selected.)		Compulsory : 18 credits	
Algebra		Applied Linear Algebra	3
Linear and Multilinear Algebra	3	Applied Analysis	3
Abstract Algebra I	3	Fundamentals of Mathematical Programming	3
Abstract Algebra II	3	Numerical Analysis I	3
Analysis		Mathematical Modeling	3
Mathematical Analysis	3	Foundations of Applied Statistics	3
Real Analysis I	3		
Real Analysis II	3		
Complex Analysis	3		
Topology and Geometry			
Topology	3		
Algebraic Topology	3		
Differentiable Manifold	3		
Applied Mathematics			
Fundamentals of Mathematical Programming	3		
Methods of Applied Mathematics I	3		
Partial Differential Equations I	3		
Numerical Analysis I	3		
Elective : 15 credits		Elective : 6 credits	
Fundamentals of Abstract Mathematics	3	Stochastic Processes	3
Coding Theory	3	Methods of Applied Mathematics I	3
Foundations of Mathematics	3	Linear Programming Theory	3
Recursion Theory	3	Nonlinear Programming Theory	3
Model Theory	3	Numerical Analysis II	3
Analytic Number Theory I	3	Mathematical Statistics	3
Representation Theory I	3	Theory of Time Series Models	3
Homological Algebra	3	Stochastic Models	3
Algebraic Semigroup Theory	3	Linear Network Optimization	3
Lie Algebras I	3	Scientific Computing	3
Combinatorial Theory	3	Stochastic Simulation Methods	3
Algebraic Number Theory I	3	Integer programming	3
Functional Analysis	3	Nonlinear Programming Algorithm	3
Convex and Discrete Geometry	3	Special Topics in Applied Mathematics	3
Probability Theory	3	Special Topics in Computational Science	3
Mathematical Statistics	3		
Graph Theory and Applications	3		
Special Topics in Advanced Mathematics	3		
Special Topics in Algebra	3		
Special Topics in Analysis	3		
Special Topics in Geometry	3		
Special Topics in Applied Mathematics	3		
Research in Mathematics II	3		
Research in Mathematics III	3		
Research in Mathematics IV	3		
Research in Mathematics V	3		
Research in Mathematics VI	3		
Algebraic Geometry	3		
Lie Algebras II	3		
Algebraic Number Theory II	3		
Advanced Analysis I	3		
Advanced Topics in Algebra	3		
Advanced Topics in Analysis	3		
Advanced Topics in Geometry	3		
Individual Study	3		
Selected Topics in Mathematics I	3		
Selected Topics in Mathematics II	3		
Thesis	18	Thesis	18