Course **Distribution**

		BINUS UNIVERSITY
Degree	:	Bachelor (S1)
Faculty/School	:	School of Computer Science
Study Program	:	Computer Science
Program	:	-
Binusian	:	2025
Curriculum	:	2021

SEMESTER 1

Group		Course	SCU
MPK	CHAR6034031	Character Building: Pancasila	2
	MATH6128031	Discrete Mathematics	4
MKK	MATH6129031	Linear Algebra	2
	STAT6190031	Basic Statistics	2
	COMP6421031	Algorithm and Programming **	4/2
MKB	COMP6839031	Program Design Methods *	2
IVIND	LANG6097031	Indonesian	2
		Total SCU	20
		Cumulative SCU	20

^{*)} This course is delivered in English **) Global Learning System course

SEMESTER 2

Group		Course	SCU
MPK	CHAR6035031	Character Building: Kewarganegaraan	2
MKK	COMP6458031	Data Structures *	4/2
	MATH6135031	Calculus	4
	MATH6192031	Scientific Computing **	2/1
MKB	COMP6846031	Human and Computer Interaction **	2/1
IVIND	ENTR6522032	Entrepreneurship: Ideation	2
		Total SCU	20
	_	Cumulative SCU	40

^{*)} This course is delivered in English

SEMESTER 3

Group		Course	SCU
MPK	CHAR6036031	Character Building: Agama	2
	COMP6472031	Algorithm Design and Analysis *	4
MKK	CPEN6249031	Computer Networks **	2/1
IVINN	SCIE6065031	Computational Physics	2/1
	COMP6847031	Database Technology	2/1
	COMP6468031	Artificial Intelligence	4
	COMP6848031	Object Oriented Programming *	2
	ENGLISH COUR	SES	
MKB	ENGL6216031	English Savvy	2
	ENGL6217031	English for Written Business Communication	2
	•	Total SCU	23
		Cumulative SCU	63

student with score English Proficiency Test less than 500 will take English Savvy, and student with score test greater than or equal to 500 will take English for Written Business Communication reality

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SEMESTER 4

Group		Course	SCU
	COMP6715031	Research Methodology in Computer Science*	2
MKK	SCIE6066031	Computational Biology	2/1
	COMP6466031	Software Engineering**	4
	CTDE A MINIO. IN	TERNET OF TUNOC***	
		TERNET OF THINGS***	I .
	COMP6849031	Embedded System	2/2
	COMP6850031	Multimedia & Mixed Reality	2/1
	MOBI6072031	Mobile Programming	2/1
	STREAMING: DI	GITAL CREATIVE TECHNOLOGY****	
	COMP6679004	Web Programming**	4
	COMP6677004	Multimedia Systems	2/2
	COMP6856004	Popular Programming Technology*	2
	STREAMING: IN	TELLIGENT SYSTEM****	
	COMP6576001	Natural Language Processing*&**	2
	COMP6577001	Machine Learning	4
MKB	COMP6822001	Speech Recognition	2/2
IVIND	CTDE A MINIC. D	ATARASE TECHNOLOGY****	
		ATABASE TECHNOLOGY*****	2/4
	COMP6481001	Database Design	2/1
	COMP6579001	Big Data Processing*&**	2/2
	COMP6710001	Distributed Cloud Computing	2/1
		TERACTIVE MULTIMEDIA****	
	COMP8129001	User Experience*&**	2/2
	COMP6823001	Multimedia System**	2
	COMP7094001	Multimedia Programming Foundation*	2/2
	STREAMING: NI	ETWORK TECHNOLOGY****	
	COMP6824001	Computer Security*	2/2
	COMP6584001	Network and System Programming*&**	2/2
	COMP6825001	Introduction to Cloud Infrastructure	2
	STREAMING: G	AME TECHNOLOGY*****	
	COMP7094001	Multimedia Programming Foundation*	2/2
	GAME6069001	Game Programming *&**	4
	GAME6082001	Game Animation*&**	2
	CTDE A MINO. 14	ODII E TECUNOI OCY****	
	MOBI6006001	OBILE TECHNOLOGY***** Mobile Community Solution*&**	2/2
	MOBI6006001	Wearable Technology***	-
		•	3
	COMP7094001	Multimedia Programming Foundation*	2/2
		ATA SCIENCE *****	Ш
	DTSC6005001	Data Mining and Visualization*&**	2/1
	DTSC6007001	Deep Learning	2
	DTSC6003001	Big Data Infrastructure and Technology*	2

Group		Course	SCU
	DTSC6009001	Survey and Sampling Methods	4
	STREAMING: CY	BER SECURITY*****	
	COMP6842001	Server and Network Administration***	2
	COMP6549001	Software Security*&**	2
	DTSC6003001	Big Data Infrastructure and Technology*	2
	COMP6844001	Mobile Penetration Testing**	2/2
	STREAMING: SO	OFTWARE ENGINEERING*****	
	COMP6106001	Code Reengineering	4
	COMP6114001	Pattern Software Design	2/2
	COMP6107001	Agile Software Development	2
	MINOR PROGRA		12
	FREE ELECTIVE		12
		: Digital Creative Technology, Intelligent System, Database k Technology, Game Technology, Cyber Security, Software Engineering	19
	,	Total SCU of Streaming : Mobile Technology, Data Science	20
		Total SCU of Minor Program, Free Electives	21
		: Digital Creative Technology, Intelligent System, Database k Technology, Game Technology, Cyber Security, Software Engineering, Minor Program, Free Electives	82
	Cumul	ative SCU of Streaming : Mobile Technology, Data Science	83
		Total SCU of Minor Program, Free Electives	84

- Students are required to choose Streaming or Minor Program or Free Electives
- State-its are required to choose streaming of minor Program of Pree Electives
 For Free Electives, students are required to choose from the list of Free Electives in Appendix.
 *) This course is delivered in English
 **) Global Learning System course
 ***) Will be conducted in BINUS Bandung
 ****) Will be conducted in BINUS Malang
 *****) Will be conducted in BINUS Jakarta

SEMESTER 5

Group		Course	SCU
	COMP6470031	Compilation Techniques	4
MKK	COMP6716031	Operating System	2
	ENTR6524032	Entrepreneurship: Market Validation	2
	STREAMING: IN	TERNET OF THINGS***	
	COMP6757031	Computer vision in IoT	2/2
	COMP6882031	IoT Development and Architecture	2/2
	COMP6655031	Cyber Security in IoT	2
	STREAMING: DI	GITAL CREATIVE TECHNOLOGY****	
	COMP6678004	Big Data Analytics for Business	4
	MOBI6063004	Mobile Application Programming**	4
	COMP6680004	Data Visualization *	2
	STREAMING: IN	TELLIGENT SYSTEM****	
	COMP7116001	Computer Vision*	2/2
	COMP6826001	Deep Learning	2/2
		Elective Course	2

Group		Course	SCU
	STREAMING: DA	ATABASE TECHNOLOGY*****	
	COMP6590001		2/2
MKB		Geographical Information System*	
	COMP6140001	Data Mining	2/2
		Elective Course	2
	STREAMING: IN	TERACTIVE MULTIMEDIA****	
	COMP6583001	Computer Graphics	2/2
	COMP6589001	Game Design Programming*	4
		Elective Course	2
	STREAMING: NE	TWORK TECHNOLOGY****	
	COMP6827001	Linux System Administration and Security	2/2
	COMP7142001	Popular Network Technology	2/2
	OOWII 7 142001	Elective Course	2
		Elective Course	
		ME TECHNOLOGY****	
	GAME6092001	Fundamental in Game Balancing	2
	GAME6081001	2D Game Art	2
	GAME6084001	Game Development Capstone Project *&**	4
	GAME6071001	3D Modeling for Games*&**	2
	STREAMING: MO	BILE TECHNOLOGY****	
	MOBI6070001	Embedded System and Internet of Things *&**	3
	MOBI6009001	Mobile Multimedia Solution **	2/2
	MOBI6068001	Web Design *&**	2
	STREAMING: DA		T
	DTSC6006001	Machine Learning *&**	2/1
	DTSC6002001	Data Management and Organization *	2
	DTSC6008001	Text Mining	2
	DTSC6004001	Data Security **	2
	STREAMING: CY	BER SECURITY****	
	COMP6646001	Computer Forensic*&**	2
	COMP6544001	Network Penetration Testing **	2/2
	COMP6695001	Secure Programming *&**	2
	LAWS6110001	Cyber Law	2
		FTWARE ENGINEERING*****	
	COMP6122001	Framework Layer Architecture	2/2
	COMP6115001	Object Oriented Analysis & Design Elective Course	2/2
		Elective Conige	2
		s for Database Technology, Interactive Multimedia, Network tware Engineering	
	MOBI6059001	Mobile Programming	2
	COMP6586001	Embedded Systems	2
	COMP6226001	Competitive Programming*	2
	COMP6681001	Web Programming	2
	MINOR PROGRA	·M ***,****&*****	8

Group	Course	SCU
	FREE ELECTIVES *****	8
Total SCU of Streaming : Digital Creative Technology, Intelligent System, Database Technology, Network Technology, Game Technology, Cyber Security, Software Engineering		18
Total SCU of Streaming : Mobile Technology, Data Science		17
	Total SCU of Minor Program, Free Electives	16
	Cumulative SCU	100

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SEMESTER 6

Group	Course	scu
MKB	Enrichment Program I	20
	Total SCU	20
	Cumulative SCU	120

Student will take one of enrichment program tracks (off campus). See enrichment appendix for the tracks detail.

SEMESTER 7

Group	Course	SCU
МКВ	Enrichment Program II	20
	Total SCU	20
	Cumulative SCU	140

Student will take one of enrichment program tracks (off campus). See enrichment appendix for the tracks detail.

SEMESTER 8

Group	Course			SCU
MKB	COMP6760031	Pre-Thesis		2
MKB	COMP6761031	Thesis		4
MKB	COMP6501031	Thesis		6
			Total SCU	6
			Cumulative SCU	146

Pre-Thesis (2 SCU) and Thesis (4SCU) can be taken in the 6th and/or 7th semester by students who meet requirements from the study program/program

Notes: (Information for group table)

MKK = Mata kuliah Keilmuan & Ketrampilan (Science and Skill Course)

MKB = Mata kuliah Keahlian Berkarya (Creative Expertise Course)

MPK = Mata kuliah Pengembangan Kepribadian (Personality Development Course)

MPB = Mata kuliah Perilaku Berkarya (Creative Behavior Course)

MBB = Mata kuliah Berkehidupan Bermasyarakat (Social Living Course)

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^{******)} Will be conducted in BINUS Jakarta