

Guidelines for New GSCT Students

April 2018

1 Purpose

GSCT presents recommended curriculum subjects in order to improve research achievement by letting new students acquire the basic knowledge of both Science&Engineering and Humanities&Arts.

2 Recommended Basic Programming Courses

- C
- C++
- C#
- Java
- Python

※ Note

- It is mandatory for Korean students to submit their basic programming certification from one of the list above. However, international students do not have to submit their certification from their programming course(s).

3 Recommended Pre-Course List and Corresponding KAIST Classes

Science & Engineering			
Num	Subject	Subject in English	Keyword
1	Basic Programming	Programming Fundamentals	programming, language
2	Linear Algebra	Linear Algebra	linear algebra
3	Probability and Statistics	Probability and Statistics	probability, statistics
Humanities & Arts			
Num	Subject	Subject in English	Keyword
1	Media and arts	Media and Art	media, art, aesthetic
2	Culture and civilization	Culture and Civilization	culture, civilization, Global, Local
3	Cultural & Artistic Phenomena in 21th Century	Cultural & Artistic Phenomena and 21th Century	cultural aesthetics in the digital age

Num	Subject	KAIST classes		
		Num	Subject	Dept./course
1	Basic Programming	CS101	Introduction to Programming	CS/Undergrad
		CS102	Advanced Programming	
2	Linear Algebra	MAS109	Introduction to Linear Algebra	Math/Undergrad
		MAS212	Linear Algebra	
3	Probability and Statistics	MAS250	Probability and Statistics	Math/Undergrad
		CC511	Probability and Statistics	Common/Graduate
4	Media and arts	HSS187	Art History and Visual Culture	Humanities & Social Science/ Undergrad
		HSS278	Modern Art	
5	Culture and civilization	HSS248	Nations and Culture	Humanities & Social Science/ Undergrad
6	Cultural & Artistic Phenomena in 21th Century	HSS472	Art and Philosophy	Humanities & Social Science/ Undergrad

- ※ The above table represents recommended subjects referring to their corresponding subjects at KAIST.
- ※ Recommended subjects include KAIST courses, as well as other university courses, or online courses which are associated with the GSCT subject keywords.

4 GSCT Recommended Book List – 50 books

Selection background: recommended readings to assist in literacy for cultural arts for graduate level students.

Num	Title	Author
1	고대문명교류사	정수일
2	The New Humanists: Science at the Edge	BROCKMAN, John
3	The structure of scientific revolutions	Thomas S. Kuhn
4	Myths of Greece and Rome	THOMAS BULLFINCH
5	Die Traumdeutung	Sigmund Freud
6	The Description of the World	Polo, Marco
7	동아시아의 전통과 변용	고병익
8	駱駝祥子/Luo tuo Xiangzi	Lao She
9	Clash of Civilizations and the Remaking of World Order	Huntington, Samuel P.
10	Sozialgeschichte Der Kunst Und Literatur	Hauser, A.
11	Culture and Imperialism	Edward W. Said
12	Cows, Pigs, Wars and Witches: The Riddles of Culture	Marvin Harris

13	La dynamique du capitalisme	Fernad Braudel
14	Understanding Media	Marshall McLuhan
15	Conscience of a Liberal	KRUGMAN, Paul
16	Social history of science	Hiroshige Toru
17	Science is Culture	Noam Chomsky
18	Sparks of Genius: The Thirteen Thinking Tools of the World's Most Creative People	Robert S. Root-Bernstein
19	THE STORY OF ART	E.H.GOMBRICH
20	The Sacred and the Profane	Eliade, Mircea
21	Die globalisierungsfalle	Hans, Martin Linde
22	Haben oder Sein	FROMM, Erich
23	TRISTESTROPIQUES	LEVI - STRAUSS
24	실크로드 문명기행	정수일
25	CODE BOOK (HOWTO MAKEIT....)	Singh, SIMON
26	WHAT IS HISTORY	Carr, Nicholas
27	Art and Technics	Lewis Mumford
28	Ancient Futures : Learning from Ladakh	Matthiessen, PETER
29	ORIENTALISM	SAID
30	Human: The Science Behind What Makes Your Brain Unique	Michael S. Gazzaniga
31	desire quotes	Jacques Lacan
32	Encomium Moriae	Desiderius Erasmus
33	Great Expectations	Charles Dickens, Stanley Weintraub, Annabel Davis-Goff
34	UTOPIA-PENGUINCL	MORE, Thomas
35	Theorie des kommunikativen Handelns	Jurgen Habermas
36	Daedalus and Icarus story	Seth Godin
37	MAN AND HIS SYMBOLS	Carl Gustav Jung
38	The Human Condition	Arendt, Hannah
39	New Ideas from Dead Economists	Todd G. Buchholz
40	The Hero with a Thousand Faces	Joseph Campbell
41	Guns, Germs, and Steel: The Fates of Human Societies	Jared Diamond
42	Primer Viaje Alrededor Del Mundo/the First Journey Around The World	Pigafeta, Antonio
43	CHAOS	James Gleick
44	consilience	Edward Wilson
45	Pensees	Pascal, Blaise, Krailsheimer
46	한국미술사	유흥준
47	Against Interpretation	SONTAG, Susan
48	The Tao of Physics An Exploration of the Parallels Between Modern Physics and Eastern Mysticism	CAPRA, Fritjof
49	Homo Ludens: A Study of the Play-Element in Culture	Huizinga, Johan
50	Order out of Chaos: Man's new dialogue with nature	Ilya Prigogine