

Educational Institutes and Software Industry

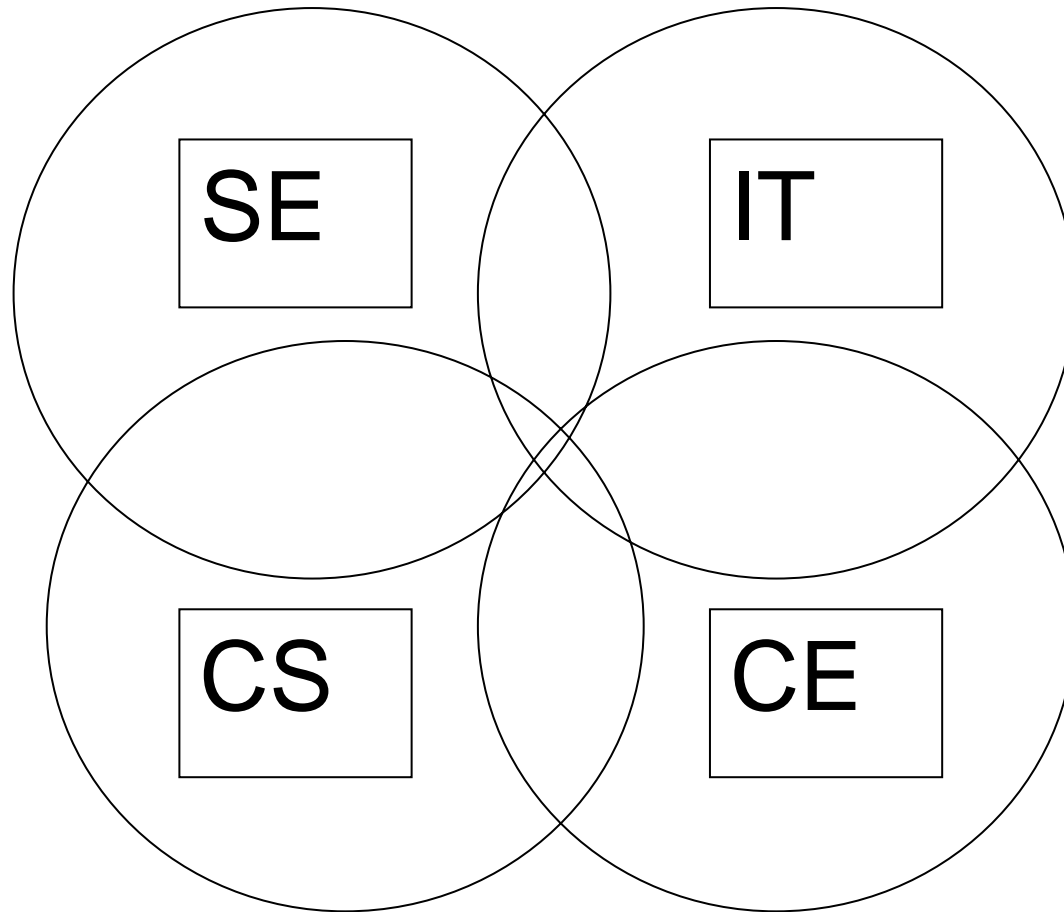
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Chulalongkorn University

Workshop for educational planning, MOE, 7-8 August 2006.

University Curriculum

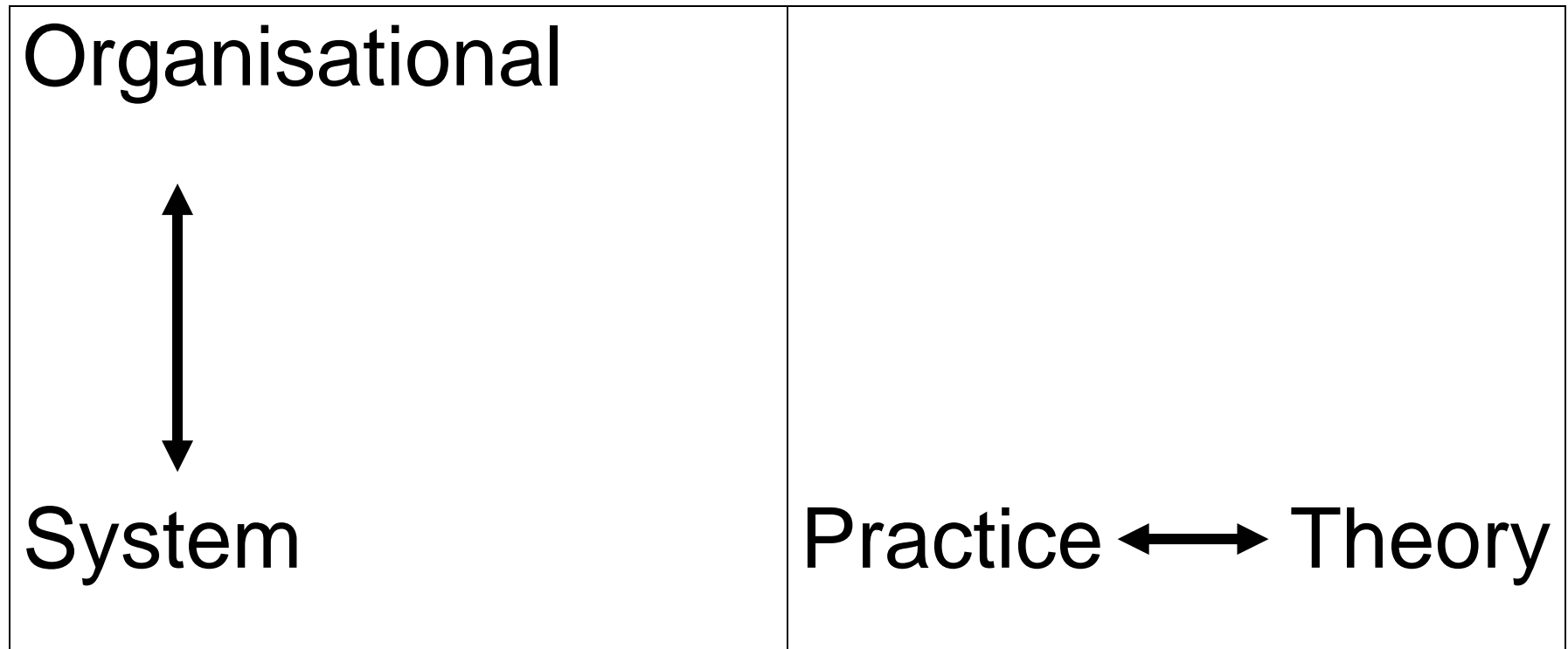
Bachelor	CS	CE	SE	IT
Master	CS	CE	SE	IT
Doctor	CS	CE		

CS computer science, CE computer engineering
SE software engineering, IT information technology



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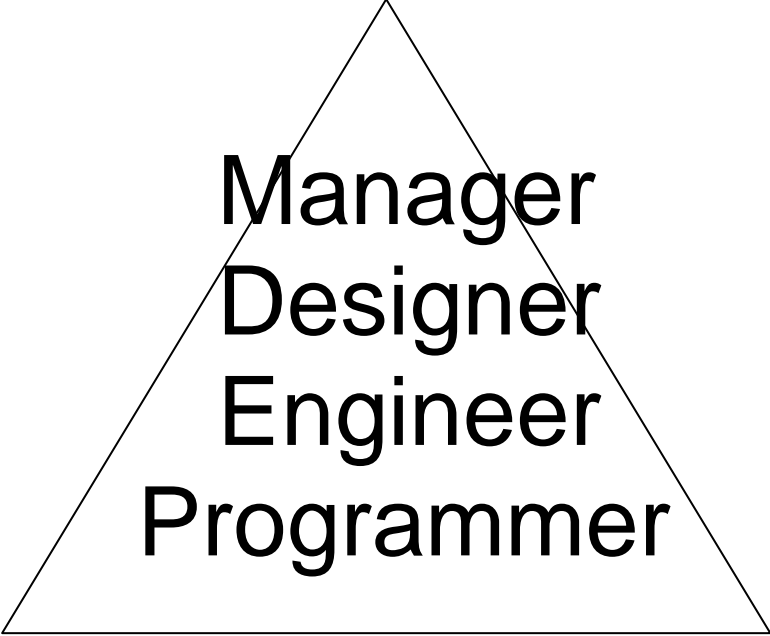
Knowledge Space



Task Space

**Manager
Designer
Engineer
Programmer**

Required Volume



**Manager
Designer
Engineer
Programmer**

Knowledge acquisition

Organisational	System
Domain Knowledge	Continuing education
Training	Training
Experience	Standard
	Skill

Knowledge body for programmer

- System thinking
 - Mathematics
 - Architecture
- Programming skill and practice
- Specialised domain
- Certificate

Knowledge body for engineer

- Engineering education
- Standard
- Training
- Engineering design

Knowledge body for designer

- Architecture
- Design practice and skill
- Analysis
 - Mathematics
- Domain knowledge
- Culture

Knowledge body for manager

- Organisational
- Breath of knowledge
- Management science and skill
- Finance
- Society

Example of Volume of work force produced by Chulalongkorn University

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Computer Engineering: CS CE SE

Bachelor 100

Master

CS 30

CE 30

SE 30

Doctor 5

Computer Science, Department of Mathematics CS

Bachelor 50

Doctor 3

Faculty of commerce and accounting

IT + SE

Bachelor 60

Business software development
Master 60

End