

**Department of Computer Science**

**BScCS**

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**Software Engineering &  
Project Management  
Stream**

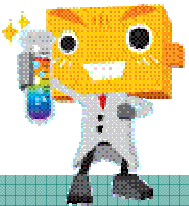
**Dr. Andy Chun** 陳漢偉  
Programme Leader (BScCS)  
Subject Group Leader (SE)





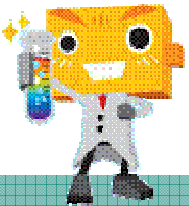
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# What is SE/PM?



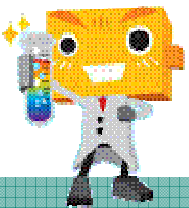
# What is Software Engineering?

## How to Design & Build Software

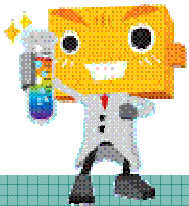
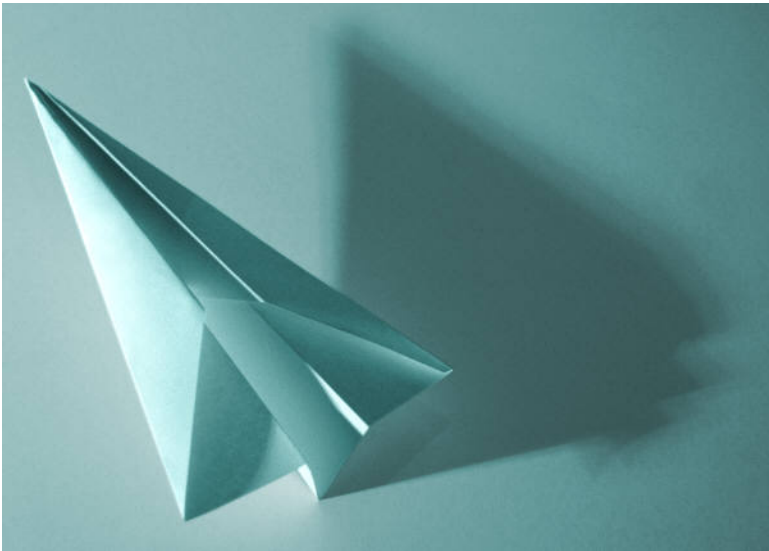


# What is Software Engineering?

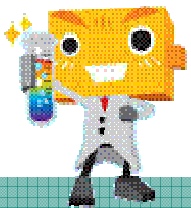
## How to Design & Build Software Professionally



# Student Programs...

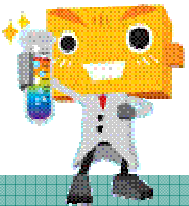


# Professional Commercial Software

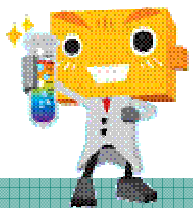
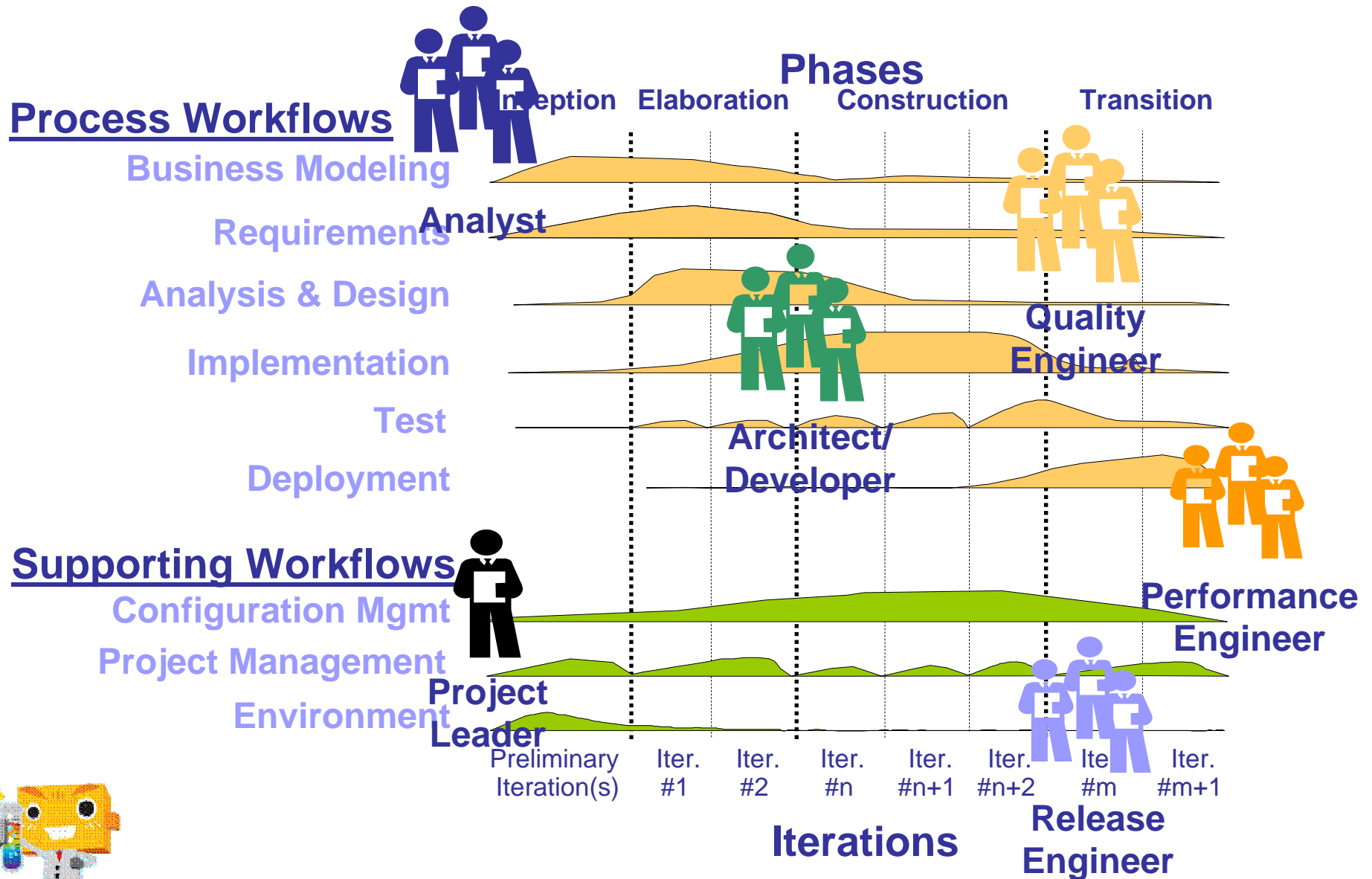


# What Will You Learn?

## How to be Professional Software Project Managers

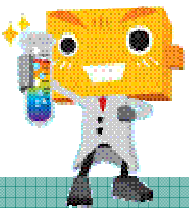


# What Is Professional Software Dev?



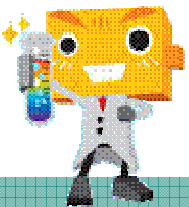


What does it  
take to be a  
Project Manager?



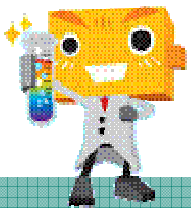
# Imagine This...

- ▶ You are the Chief Software Project Manager
  - ▶ You have a team of 50 professional programmers
  - ▶ You need to create a software system that will be over one million lines of code (LOC)
  - ▶ You need to deliver this in 6 months



# And...

- ▶ Your software controls Shenzhou 7 (神舟七号) Space Station!

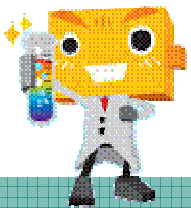




How would you  
manage this  
project?

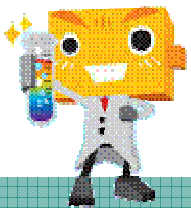


# And... You Have a Visitor!



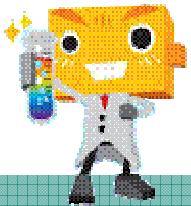
## Premier Wen Jiabao Wants to Know...

- ▶ Are you sure that the million lines of software is absolutely bug free?
- ▶ Are you sure your software will be ready on time?
- ▶ Are you sure your software is fast enough?



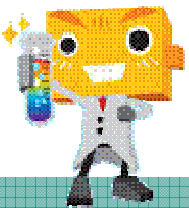
## Premier Wen Jiabao Wants to Know...

- ▶ Are you sure your software will not cause the space station to blow up?



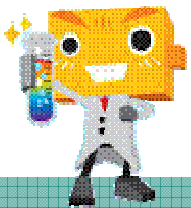


How do you  
answer those  
questions?



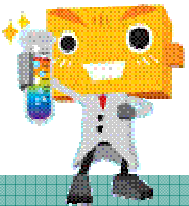
# You Need the SE+PM Stream!

- ▶ SE+PM teaches you how to answer all those tough questions scientifically and with confidence!
  - ▶ Learn dynamics of software development and how to manage it to produce quality software



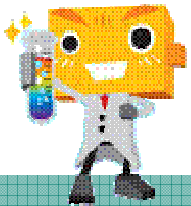


Why should I be interested in becoming a Project Manager?



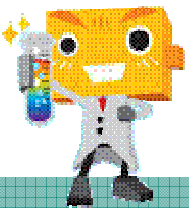
## The Sad Fact...

- ▶ Most simple “programming” jobs will be moved to mainland of China where wages can be as low as \$2K/month



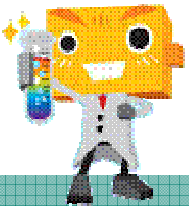
# Your Path to Success!

- ▶ HK IT professionals are famous for their management and communication skills... and high quality results
  - ▶ Even companies in mainland of China come to HK to recruit!
  - ▶ SE+PM teaches you what is quality software and how to manage projects so that they produce high quality software



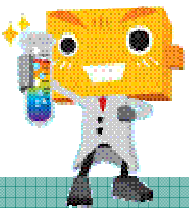


# What will I be studying?



# Courses in the SE+PM Stream

- ▶ CS4280 Advanced Internet Application Development
- ▶ CS3356 Managing Software Projects
- ▶ CS3346 Software Testing and Maintenance
- ▶ CS4348 Software Quality Management



# Questions?

