Department of Computer Science

BScCS
Software Engineering & Project Management Stream

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Programme Leader (BScCS)
Subject Group Leader (SE)
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...
What Will You Learn?

How to be Professional Software Project Managers
What Is Professional Software Dev?

Process Workflows
- Business Modeling
- Requirements
- Analysis & Design
- Implementation
- Test
- Deployment

Supporting Workflows
- Configuration Mgmt
- Project Management
- Environment

Phases
- Inception
- Elaboration
- Construction
- Transition

Iterations
- Preliminary Iteration(s)
- Iter. #1
- Iter. #2
- Iter. #n
- Iter. #n+1
- Iter. #n+2
- Iter. #m
- Iter. #m+1

Roles
- Analyst
- Quality Engineer
- Architect/Developer
- Project Leader
- Performance Engineer
- Release Engineer
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?
SE+PM Stream

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
SE+PM Stream

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?