

软件工程导论

课程介绍

戚荣志

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Know your staff

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CC2005、 CS2008: Computer Science

Figure 1-2. The 14 knowledge focus groups

Discrete Structures (DS)	Human-Computer Interaction (HC)
Programming Fundamentals (PF)	Graphics and Visual Computing (GV)
Algorithms and Complexity (AL)	Intelligent Systems (IS)
Architecture and Organization (AR)	Information Management (IM)
Operating Systems (OS)	Social and Professional Issues (SP)
Net-Centric Computing (NC)	Software Engineering (SE)
Programming Languages (PL)	Computational Science (CN)

SWEBOK v3.0

- ❖ Guide to the Software Engineering Body of Knowledge
- ❖ 软件工程知识体系指南
- ❖ 美国IEEE协会和ACM于2014年联合公布

SWEBOK v3.0

Table I.1. The 15 SWEBOK KAs

Software Requirements

Software Design

Software Construction

Software Testing

Software Maintenance

Software Configuration Management

Software Engineering Management

Software Engineering Process

Software Engineering Models and Methods

Software Quality

Software Engineering Professional Practice

Software Engineering Economics

Computing Foundations

Mathematical Foundations

Engineering Foundations

教材

- 软件工程：实践者的研究方法（原书第8版，本科教学版）

Roger S. Pressman

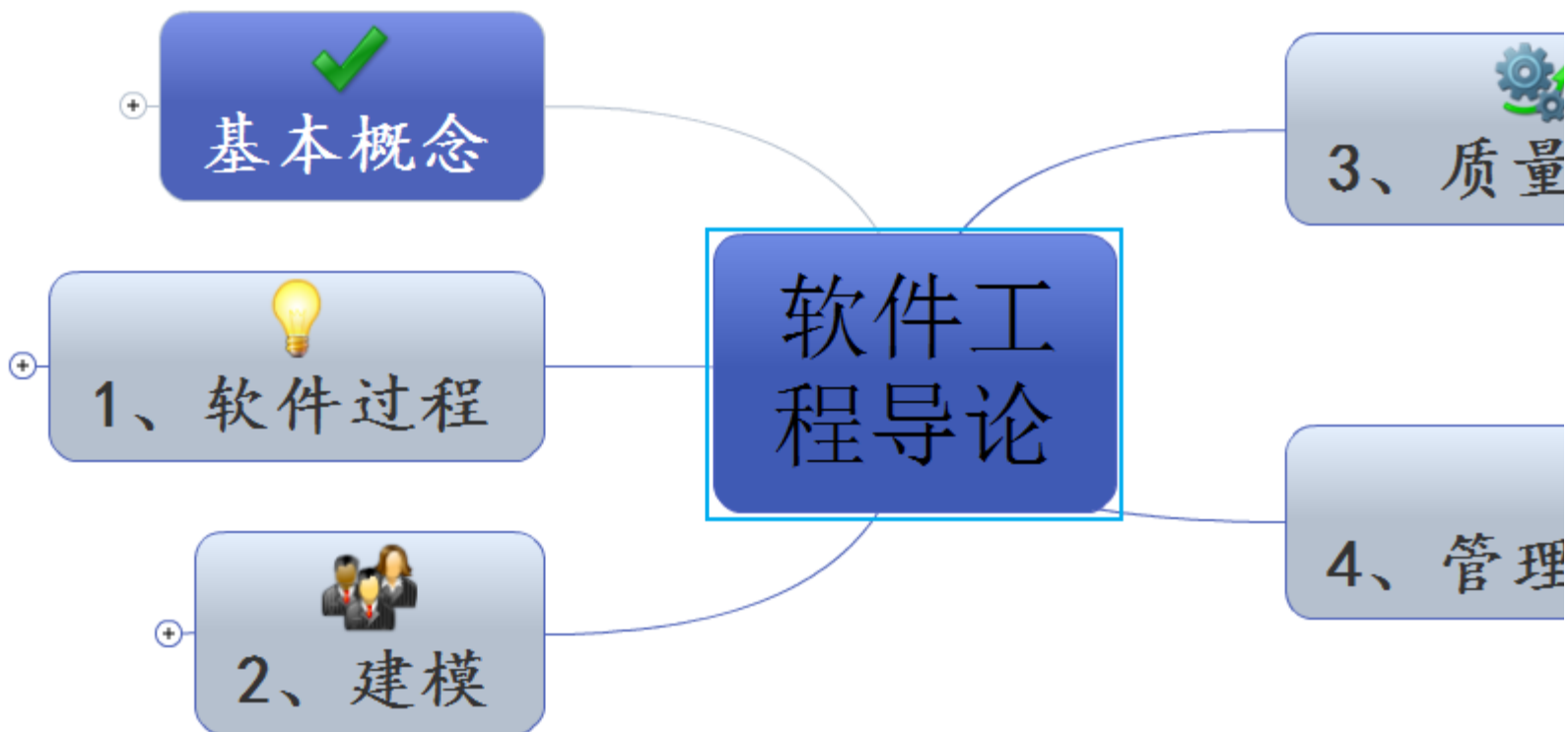
Bruce R. Maxim



参考书

- Software Engineering: A Practitioner's Approach (8th Edition), Roger S. Pressman.
- Software Engineering (9th Edition),
Ian Sommerville
- The Mythical Man-Month: Essays on Software Engineering, Anniversary Edition (2nd Edition),
Frederick P. Brooks, Jr.
- 软件工程导论（第6版），张海藩，清华大学出版社

课程内容



课程目标

- 在掌握软件工程基础知识的同时，真正学会运用软件工程的思想和技术进行软件的需求分析、系统设计、实现和测试。

课程考核

- 平时 30%
 - 出勤+课堂互动+作业
- 期末 70%
 - 闭卷考试