



Software Quality Management

Introduction

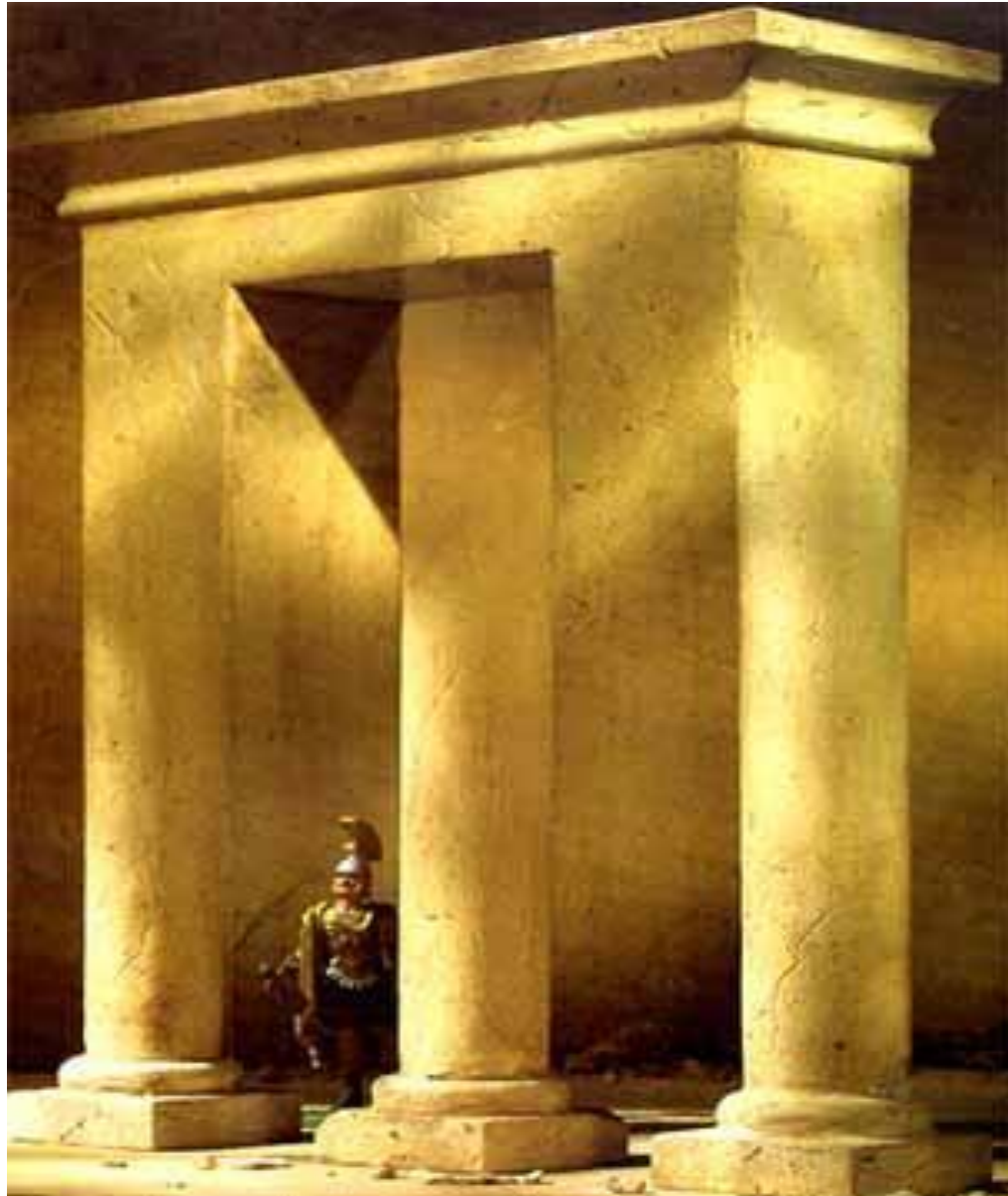
Lecturer: Nguyễn Ngọc Tú

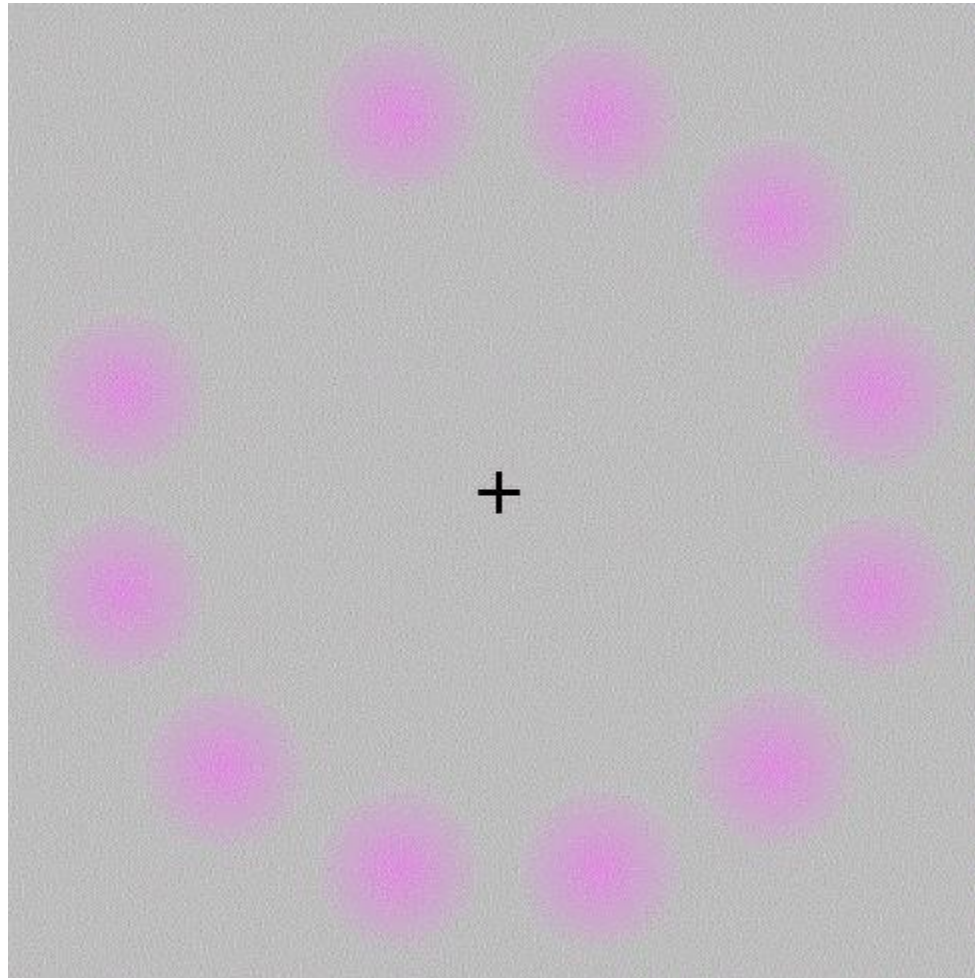
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#AdTekDev #ICoTek #VNASQ #VNSQA #VNSoftwareTesting





Outline

- Course specification
- Learning Outcomes
- Contents
- Grade policies
- Reference Textbooks
- Seminar Topics
- Project Topics



Course specification

- Course ID: TIN450DE
- Credits: 3 (45 hours)
 - Number of Theory hours: 15
 - Number of Exercises hours: 20..25
 - Number of Seminar hours: 5..10



1. newelearning.hoasen.edu.vn

2. [sites.google.com/site/
QuanLyChatLuongPhanMem](http://sites.google.com/site/QuanLyChatLuongPhanMem)

Learning Outcomes

- Present the SQM in SDLC
- Measure the software attributes by metrics
- Explain applied methods in analyzing quality
- Estimate the software quality
- Plan the quality assurance actions



Contents

1. What Is Software Quality ? L
2. Quality Assurance 1
3. Software Quality Assurance Life Cycle Model L3,6
4. Quality planning
5. Requirements analysis for Quality Aims L2,3
6. System design for Quality L
7. Testing 4
8. Defect Classification and Analysis
9. Risk Identification for Quantifiable Quality Improvement L5,7
10. Quality Models, Measurements and Assessment L
11. Software Quality Metrics 7
12. Standards & Improvement Process L5,8
13. Standards & Methods

Grade policies

● **Extra point** 10%

● Quiz 10%

● Seminar  25%

● Project  25%

● Final Exam 40%

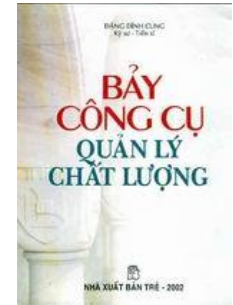
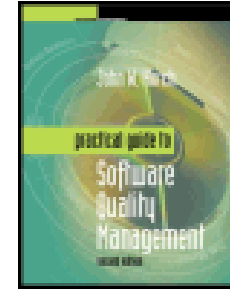
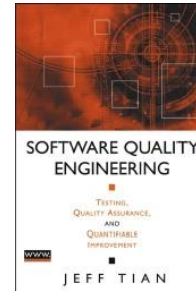
(docx 30↑ps; pptx 45↑slds; 30'-60')

(tracking, report, code, app, demo)

(120', 40 mult-choices, 4 problems)



Reference TextBooks



- ❑ [1] Jeff Tian, *Software Quality Engineering Testing, Quality Assurance, and Quantifiable Improvement*, 2005
- ❑ [2] D. Ince, *Software Quality Assurance - A Student Introduction*, 2000
- ❑ [3] John W Horch. *Practical Guide to Software Quality Management*, Second Edition, 2003
- ❑ [4] Mauro Pezze, *Software Testing and Analysis: Process, Principles and Techniques*, 2007
- ❑ [5] Stephen H. Kan , *Metrics and Models in Software Quality Engineering, Second Edition*, Addison Wesley , 2002
- ❑ [6] Paul Goodman, *Software Metrics: Best Practices for Successful IT Management*, 2004
- ❑ [7] ISTQB Syllabus working party, *ISTQB Syllabus Foundation Level V2007*, 2007
- ❑ [8] ISTQB Syllabus working party, *ISTQB Syllabus Advanced Level 2007*, 2007

CSQE, CQE, CTAL, ...

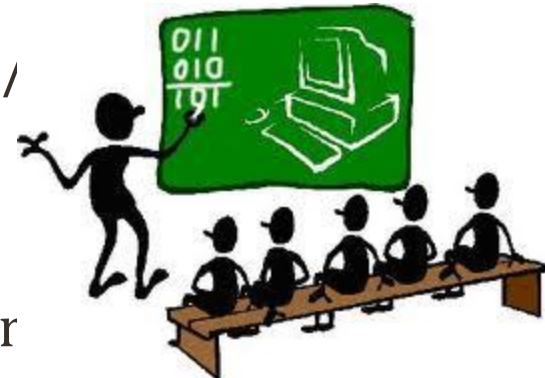
Seminar topics

- Types

- Paper/Articles
- Theory content – algorithms/
- Practice tools

- Contents

- Estimation methods – SQA pr
- Defect prevention/reduction – techniques
- Analysis a root of defect
- !...



Project topics

- Weekly Exercises



- Apply for group's projects



Q/A ?!

