

BCS 3263 SOFTWARE QUALITY ASSURANCE

Chapter Three Software Product Quality by FSKKP @ump.edu.my



Chapter Description

• Aims

- How to achieve quality?
- Expected Outcomes
 - Inquire a knowledge of main software quality assurance activities, their tasks, work products and their models
- Other related Information
 - Introduces students to the concept of Software Quality Assurance (SQA) including principles, component, process, models, standards and certification of SQA.
- References
 - Mastering software quality assurance : best practices, tools and techniques for software developers / Murali Chemuturi Chemuturi, Murali, J. Ross Pub. QA76.76.Q35 C44 2011





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White Box Standpoint



How to achieve the feature

Coding guidelines

Standard constructs and coding guidelines

Coding guidelines and avoid hard coding and parameterizing

Efficiency guidelines

Software architecture guidelines and software design guidelines

Reusability coding guidelines

Formatting guidelines

Software design guidelines

Presence of Defects in the Product

Defects

How to uncover them

Critical defects

 Software reviews, negative testing, and stress testing

Major defects

Threaten inside a product, and it is very difficult to uncover and eliminate all of them.

Minor defects

Using a careful system of software verification and checklists during reviews.



Conclusion of The Chapter

- Conclusion #1
 - Functionality Standpoint
- Conclusion #2
 - White Box (Glass Box) Standpoint
- Conclusion #3
 - Presence of Defects in the Product
- Conclusion #4
 - Program Quality & Measurement of Product Quality







Thank you 🙂



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