Lecture 13
Revision on Software Engineering

Lecture Structures
• Covered 19 chapters from Text Book
• 7 parts of Software Engineering
• Engineering practices for S/W Development
• Aware of Similarities and Differences

Part 1 - Overview
• Lectures 1, 2 and 3
• Chapter 1 – Introduction
• Chapter 2 – Computer-Based System Engineering
• Chapter 3 – Software Process
• Chapter 4 – Project Management

Part 2 - Requirements
• Lecture 4 and 5
• Chapter 5 – Software Requirements
• Chapter 6 – Requirement Engineering Processes
• Chapter 7 – System Models

Part 3 - Design
• Lecture 6 and 7
• Chapter 10 – Architectural Design
• Chapter 12 – Object-oriented Design
• Chapter 15 – User Interface Design
Part 4 – Critical Systems
- Lecture 8 and 9
- Chapter 16 – Dependability
- Chapter 17 – Critical Systems Specification

Part 5 – Verification and Validation
- Lecture 9 and 10
- Chapter 19 – Verification and Validation
- Chapter 20 – Software Testing
- Chapter 21 – Critical Systems Validation

Part 6 - Management
- Lecture 11 and 12
- Chapter 22 – Managing People
- Chapter 23 – Software Cost Estimation
- Chapter 24 – Quality Improvement

Part 7 - Evolution
- Lecture 12
- Chapter 27 – Software Change

Examination Instruction
- **TIME ALLOWED:** 3 hours plus 10 minutes reading time
- Answer all questions in the answer booklet.
- The Examination is worth a total of 50 marks.
- There is a total of THREE printed pages (including this page).
- Return this question paper at the end of the examination.

EXAMINATION AIDS
- **NO CALCULATOR PERMITTED**
- **ONE A4 SHEET (BOTH SIDES) HANDWRITTEN NOTES**
- To be provided by the University: **NIL**
Format of Questions

- **PART ONE**: Candidates should Attempt ALL of the FIVE questions which are worth two marks each.
- **PART TWO**: Candidates should Attempt ALL of the FOUR questions which are worth ten marks each.

Suggestions

- Budget your time (average 3.5 minutes per mark)
- 5-7 minutes for 2 marks
- 30 – 35 minutes for 10 marks
- Give some time to go through answers
- Answer in order
- Write clearly
- Answers should base on your UNDERSTANDING and NOT REPRODUCTION OF THE NOTES.
- Be Relax!