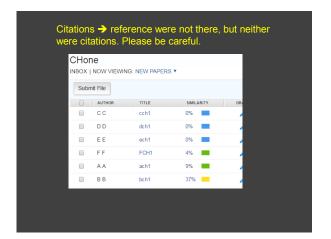
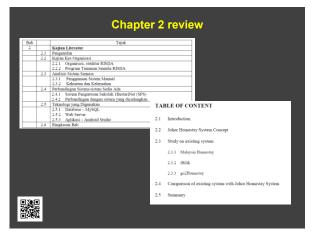


#### **Chapter 1 review**

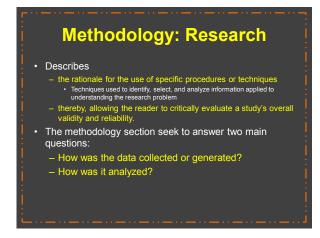
- Here are some problems I detected in the few submissions that I read:
  - Spelling, grammar, format
  - The use of "I", "we", "kita", "saya" → you cannot use these
  - Some I had problem reading due to:
    - No topic given with chapter
    - Unclear on the problem they are trying to solve





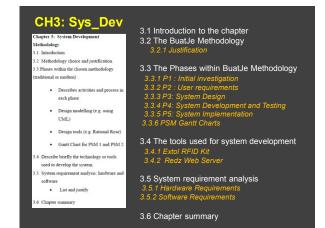


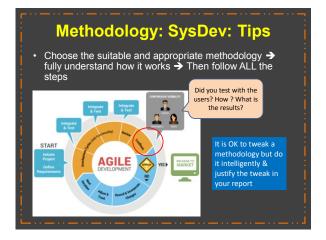




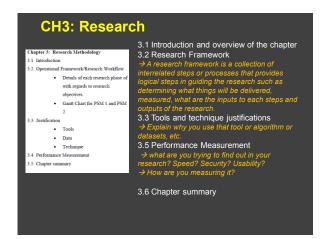
Methodology 3.1 Introduction 3.2 Methodology choice and justification. 3.3 Plasas within the chosen methodology (traditional or modern)  Describes activities and process in each phase Design modelling (e.g. using UML).	Research Track  larochetion  larochetion  Operational Framework/Research Workflow  Details of each research Workflow  Details of each research workflow  objectives.  Gaunt Chart for PSM 1 and PSM  2  3 Justification  Tools  Data	This is the guideline for the chapter. Read the description carefully to understand.
Methodology 3.1 Introduction 3.2 Methodology choice and justification. 3.3 Plasas within the chosen methodology (traditional or modern)  Describes activities and process in each phase Design modelling (e.g. using UML).	Introduction Operational Framework/Research Workflow  Details of each research phase of with regards to research objectives. Gam Chart for PSM 1 and PSM 2 Junification  Tools Tools	for the chapter. Read the description carefully to
3.1 Introduction 3.2 3.2 Methodology choice and justification. 3.2 3.2 Methodology choice and justification. 3.3 3.2 Means within the chosen methodology (traditional or modern)  Describes activities and process in each phase  Design modelling (e.g. using UML).  Descript model (e.g. Rational Rose)	Operational Framework/Research Workflow     Details of each research phase of with regards to research objective.     Gaunt Chart for PSM 1 and PSM 2     Junification     Tools	for the chapter. Read the description carefully to
Methodology choice and justification.     Masses within the chosen methodology (traditional or modern)     Describes activities and process in each phase     Design modelling (e.g. using UML)	Details of each research phase of with regards to research objectives. Gaun Chart for PSM 1 and PSM 2 Justification Tools	for the chapter. Read the description carefully to
3.3 Plases within the chosen methodology (traditional or modern)  Describes activities and process in each plase  Design modelling (e.g. using UMA).  Design modelling (e.g. using UMA).	with regards to research objectives.  Gaunt Chart for PSM 1 and PSM 2 Justification Tools	for the chapter. Read the description carefully to
(traditional or modern)  Describes activities and process in each phase  Design modelling (e.g. using UML)  Design model (e.g. Rational Rose)	objectives.  • Gantt Chart for PSM 1 and PSM  2 3 Justification  • Tools	for the chapter. Read the description carefully to
Describes activities and process in each phase Design modelling (e.g. using UML)  Design tools (e.g. Rational Rose)	Gantt Chart for PSM 1 and PSM 2 3 Justification     Tools	Read the description carefully to
each phase  Design modelling (e.g. using UML)  Design tools (e.g. Rational Rose)	2 3 Justification  • Tools	carefully to
UML)  • Design tools (e.g. Rational Rose)	1000	
Design tools (e.g. Rational Rose)	<ul> <li>Data</li> </ul>	
Design tools (e.g. Rational Rose)		
3.4	Technique  Performance Measurement	This chapter gives the reader a look at
<ul> <li>Gantt Chart for PSM 1 and PSM 2 3.5</li> </ul>	5 Chapter summary	the process of your
3.4 Describe briefly the technology or tools		project → must be
used to develop the system.		written directly and
3.5 System requirement analysis: hardware and		precise
software		precise
List and justify		
3.6 Chapter summary		

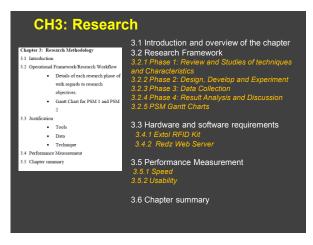
#### CH3: Sys\_Dev 3.1 Introduction to the chapter 3.2 The chosen Methodology and why you 3.1 Introduction 2 Methodology choice and justification 3.3 Phases within the chosen methodology 3.3 The Phases within the chosen raditional or modern) methodology Describes activities and process in each phase Design modelling (e.g. using UML) 3.4 The tools/technology used for system Design tools (e.g. Rational Rose) Gantt Chart for PSM 1 and PSM 2 3.5 System requirement analysis → Hardware, Software Requirements → Describe what is used for development and running of the system (server, user) used to develop the system. 3.5 System requirement analysis: hardware and software 3.6 Chapter summary List and justify 3.6 Chapter summary

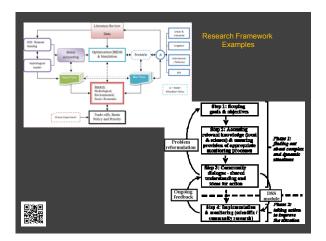


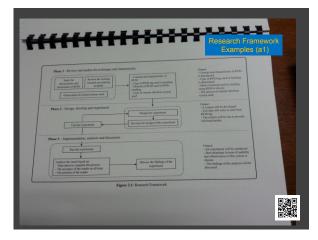


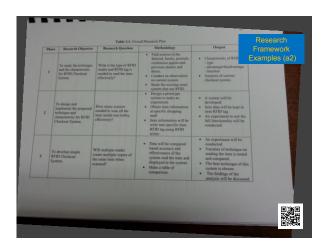
#### UNDERSTAND THE METHODOLOGY YOU ARE GOING **TO USE RAD** (rapid application JAD (Joint Application development) is a concept Development) is a methodology that that products can be involves the client or end user in the developed faster and of design and development of higher quality through → an application, through a Gathering requirements succession of collaborative workshops, Prototyping and workshops called JAD sessions. It early, reiterative user testing leads to faster development and of designs, The re-use of greater client satisfaction. software components, A Scrum is an agile software rigidly paced schedule that development model based on defers design improvements multiple small teams working in an to the next product version intensive and interdependent manner.







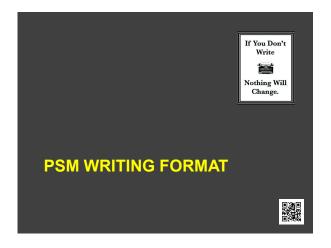




#### Aside:

- · Always discuss with your SV the best way to go.
  - Which methodology, tools, techniques etc.
- You might think "It is just PSM"
  - But what would your future employer think of your ability and skills?
- Research is fluid and dynamic → make sure you understand what you are aiming for

  - Consult SV regularly
     Align methodology with your objectives (rule of thumb: 1 phase = 1 objective)
  - Unlike project-based, you have to test your work using data
  - Best to get the experiments done early (before half-sem of PSM2)



#### Introduction

- · Report is a big portion of your PSM grades.
  - It must be written well
  - It must have correct grammar and spelling
  - It must follow UTM report writing standards
  - No plagiarism
- · The report shows your maturity in handling customer or client communication
  - Communicating process, procedure and coding through written media

## Regulations and standards

- · We follow UTM Thesis Writing guideline
  - UTM Thesis Manual (2007 edition) there is a 2015 version... I believe.
  - Report pagination (margins etc), citation and reference guide
- PSM Handbook
  - Report structure, citation and reference guide

#### Did you know:

- Your title should be a short and snappy description of the main topic of the thesis.
  - Not more than 15 words.
- Figures and tables are numbered in sequence following the chapters, not sections.
  - Chapter 3
  - Figure 3.1, Figure 3.2, Figure 3.3 and so on.
  - Table 4.3 is the third table that appears in Chapter 4
- · The maximum number of pages for the report (excluding
  - 50 for PSM 1 and 100 for PSM2.

### Did you know:

- · Abbreviations are acceptable, but must be first introduced in full.
  - Example: The Virtual Private Network (VPN) is ----. To that effect VPN is universally accepted.
- Do not put EVERYTHING (charts, survey forms, all sequence diagram, user manual, etc) in the main text
  - Put supportive information in appendix
- · All figures, tables, formulas, appendices MUST BE referred to in the main text.
  - Example: Figure 5.1 shows the robust incline of speed in A, while Table 5.2 shows the tabulation across the different
  - algorithms

    A table should be positioned after it is being cited for the first time in the text.

### Did you know:

- Abstracts
  - must be bilingual → 1in English and 1in B.Malaysia
    - The language of your thesis will be first, followed by the other
    - Example: Thesis language (English) → Abstract English, Abstract BM
  - written in one paragraph and not exceed 300 words.
    - · It should states the field of study, problem definition, methodology adopted, research process, results obtained and conclusion of the research.
- · For citation and references, FK Thesis follow thesis format with Harvard System style
  - refer to UTM Thesis Guidelines

#### Aside:

- · Keep these handy and refer always:
  - UTM Thesis Guide and PSM Handbook
- Proofread (at the very least use the MSWord checker)
- Write as you progress along (even more serious in PSM2)
- · Cite diligently
- · Start in a formatted template (according to UTM standard) → it will lessen headaches
- · Always have a backup copy
- · Consult SV for guidance

# \*\*\*Note:

- There are several tools available for preparing thesis and technical paper writing.
- · Students are encouraged to use packages for preparing the thesis:

  - LaTeX + BibTeX (http://code.google.com/p/utmthesis) or
     Microsoft Word + EndNotes.
     Students can manage references easily by using these tools. It can generate the list of references automatically.
- For students who will write their thesis in English, PSZ also provides a software called StyleWriter to proofread your thesis.

