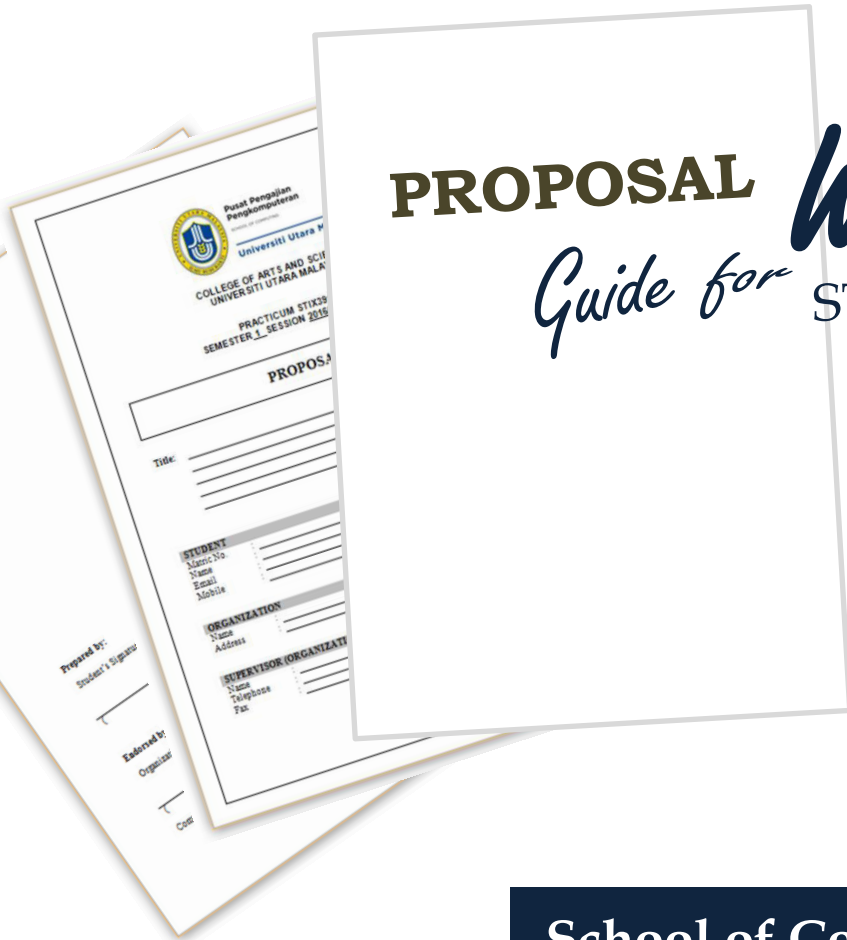


PROPOSAL

Writing

Guide for

STIX3912 Student



School of Computing Practicum Workshop

16 December 2016 | DKG 4/3

Wan Hussain Wan Ishak

Room: 2079 | URL: <http://wanhussain.com>

Ext: 5150 | Email: hussain@uum.edu.my



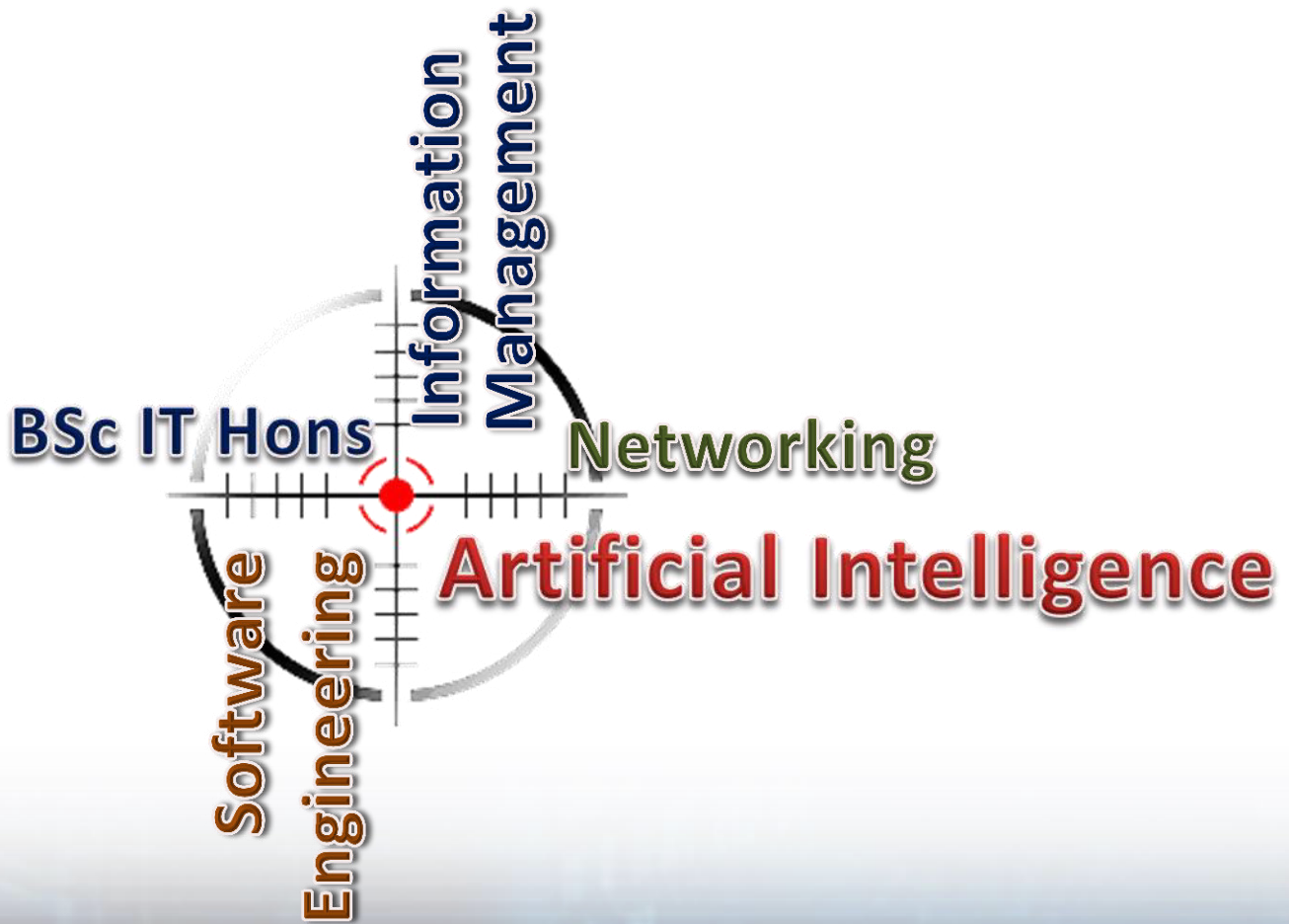
**Pusat Pengajian
Pengkomputeran**

School of Computing

Universiti Utara Malaysia

MAJORING @ SOC

MAJORING @ SOC



WHAT KIND OF PROJECT?

WHAT KIND OF PROJECT?



Plan + Design + Implement + Test

WHAT KIND OF PROJECT?

WHAT KIND OF PROJECTS

Project	Description
1. Application Development	
<ul style="list-style-type: none"> ■ Web-based 	<ul style="list-style-type: none"> ■ Develop any web-based applications using server-side scripting (such as PHP or ASP), databases and HTML pages. ■ The application must be interactive and contains basic functions such as data entry, update, generate report, and etc. ■ Example: e-commerce website, online student registration system, web-based staff management system, and web portal. ■ Static pages which contain only HTML files are not allowed.
<ul style="list-style-type: none"> ■ Web Services 	<ul style="list-style-type: none"> ■ Suitable for those who have deep knowledge in web application technology such as UDDI. ■ Example : Web service for tourism industry, universities information web service
<ul style="list-style-type: none"> ■ client server ■ Mobile/wireless application 	
2. Information system planning	ISP: A study to propose an information system plan for the organisation/department Plan a new system or upgrading the current system
3. Bioinformatic application	
4. High performance computing	Grid/cluster/parallel/distributed/real-time computing, simulation
5. Information system & network security	Focus on computer security: Planning, analysis, design, implementation, policy, audit, etc.
6. Computer system configuration	
7. Other relevant topics	With the approval of lecturer

WHAT IS PROPOSAL?

WHAT IS PROPOSAL?

pro·pos·al
/prəˈpōzəl/ ⓘ

noun

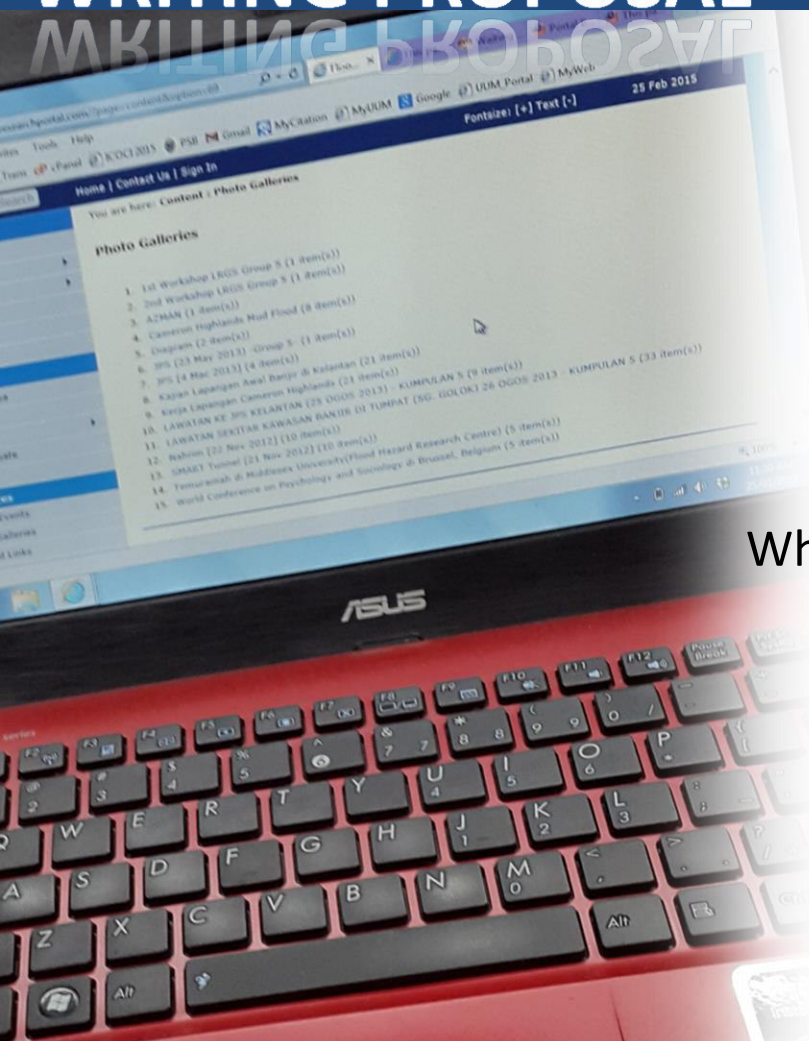
1. a plan or suggestion, especially a formal or written one, put forward for consideration or discussion by others.
"a set of proposals for a major new high-speed rail link"
synonyms: plan, idea, scheme, project, program, manifesto, motion, proposition, suggestion, action point, submission, trial balloon
"the proposal was rejected"
2. an offer of marriage.

Translations, word origin, and more definitions

A proposal to **explain** about **project** to be **conducted** at the **organization**.







What you want to do?

What is the project about?

Why you want to do it?

Explain **what** problem you are trying to solve, and **why** this problem is **worth solving**. You should also provide a **brief** setting and **history** behind the project.



A **problem statement** is a **brief description** of the **issues** that need to be addressed.



What is the problem?

Who has the problem/who **needs** the solution?

What form can the **resolution** be? A web-tool? A new feature/design?

Since ABC Sdn Bhd began operations in 2012, records management is done manually. Since then, its **HR Department** facing with **data losses** every year. For instance in 2015, massive flood has damage 20% of the staff's files. Due to that situation, some of the staff information were lost. The recovery process took six months to complete.

In order to overcome the problem, HR department need to migrate their record management to **online database system**. The online database will facilitate the storage, search, backup and recovery in the event of any emergency situation.

An objective is something you **plan** to **achieve**.



... to **achieve** within a **time frame** and with **available resources**



Specific



Measurable



Achievable



Rewarding



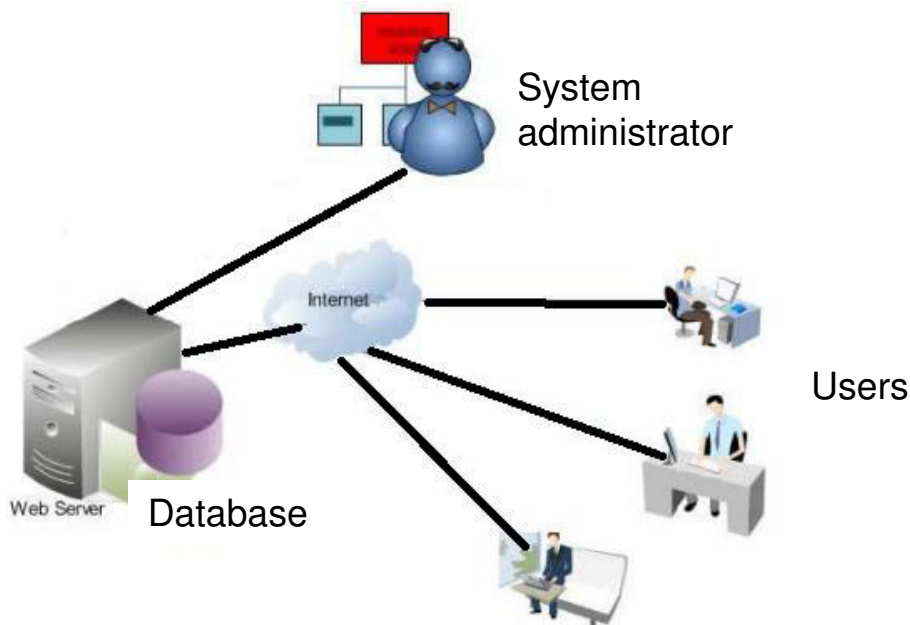
Timely



The aim of this project is **to develop an online database system** for HR department.

Specifically,

- a) To **identify** the user requirements
- b) To **design** and develop the online database
- c) To **validate**/test the prototype





... determining and documenting a **list of specific** project goals, deliverables, tasks, costs and deadlines.

The proposed **online database system** is intended for use by the **HR department** at ABC Sdn Bhd. The system will be equipped with **four main functions** namely; storage, update, search and report. The system will operate using the Internet.

Users of this system consists of a **system administrator** (HR officer) and **users** of the HR department as well as other departments.

...includes an explanation of the **work's significance**, its **potential benefits** and its **overall impact**.

...explain to an audience why a researcher's **work is worth performing**.



The proposed project is expected to:

- a) **Increase** the **efficiency** of record management at ABC Sdn Bhd
- b) Easy and fast **record retrieval**
- c) Easy **reporting**
- d) **Reduce** record losses or damage
- e) Easy **data recovery**



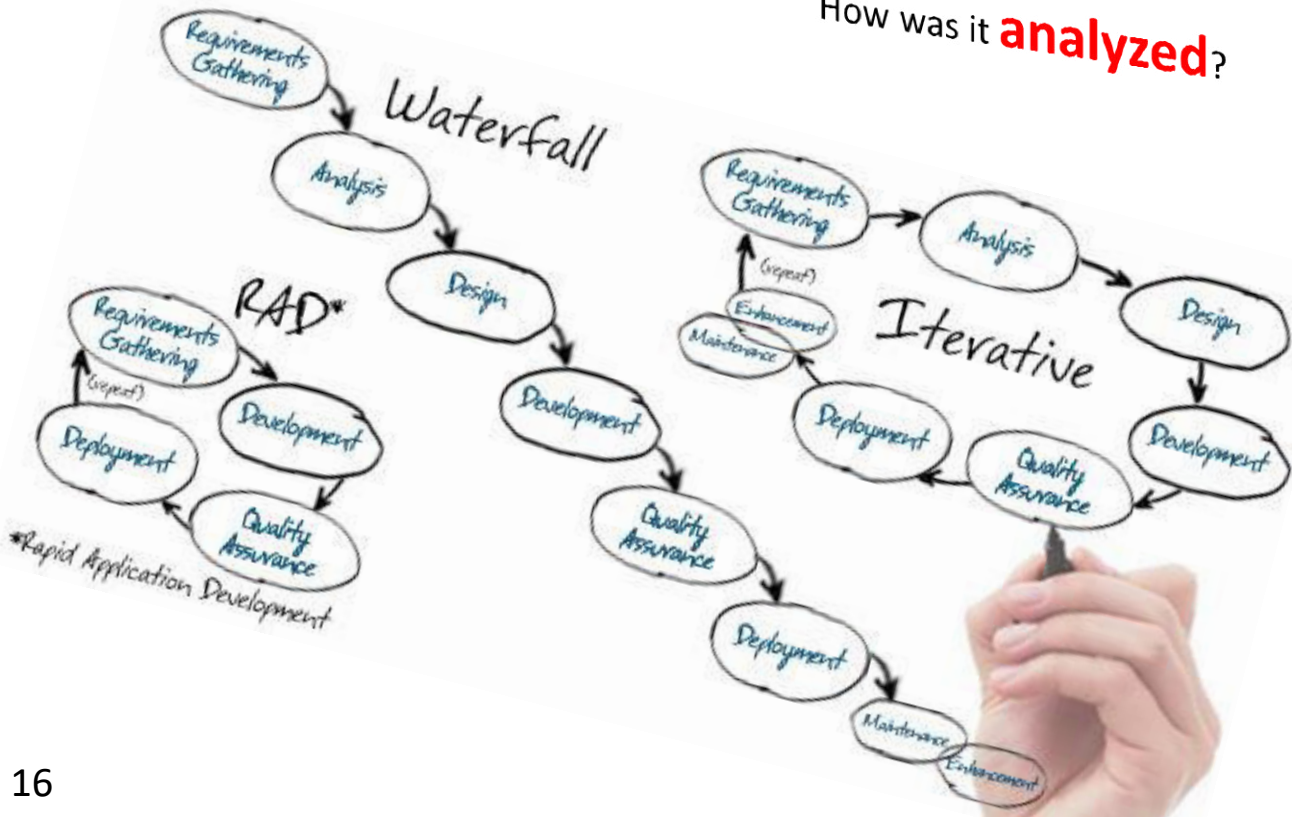


... is a **framework** that is used to structure, plan, and control the process of developing an information system.

SDLC is a **conceptual model** - describes the **stages** involved in an information system development project

How was the **data collected** or generated?

How was it **analyzed**?



*Rapid Application Development

RAPID APPLICATION DEVELOPMENT

Phase 1: Requirement gathering

- How the requirements are to be gathered.
Interview? Observation? Discussion?
- Who will involve?

Phase 2: Development

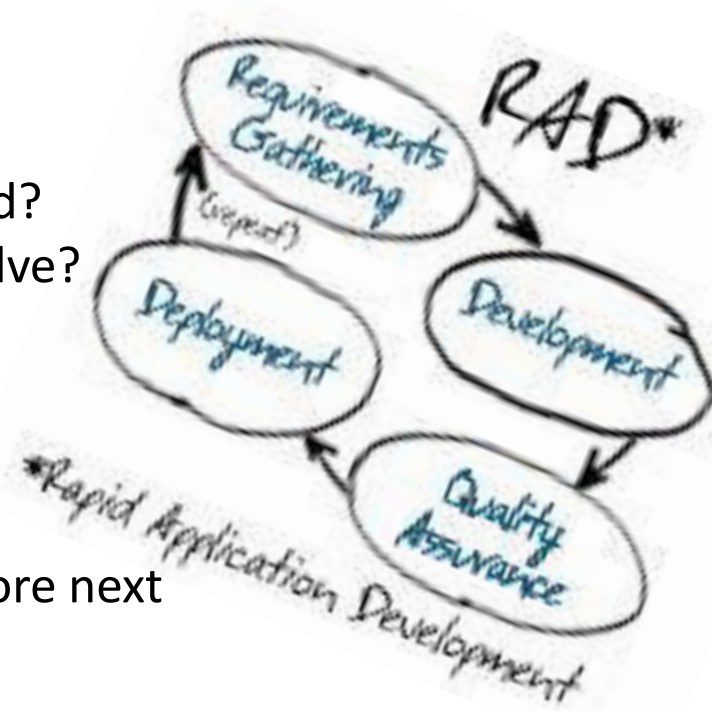
- The design?
- How to develop? Tools? Programming language?
Hardware? Software?

Phase 3: Quality Assurance

- How test to be conducted?
- Where and who will involve?
- What are measurement?

Phase 4: Deployment

- Who going to use?
- How long to be used before next
maintenance/update



FEASIBILITY

... is an **assessment** of the **practicality** of a proposed project.

... evaluates the project's **potential** for success

Common factors:

- ✓ Technical feasibility
- ✓ Economic feasibility
- ✓ Legal feasibility
- ✓ Operational feasibility
- ✓ Schedule feasibility



Software



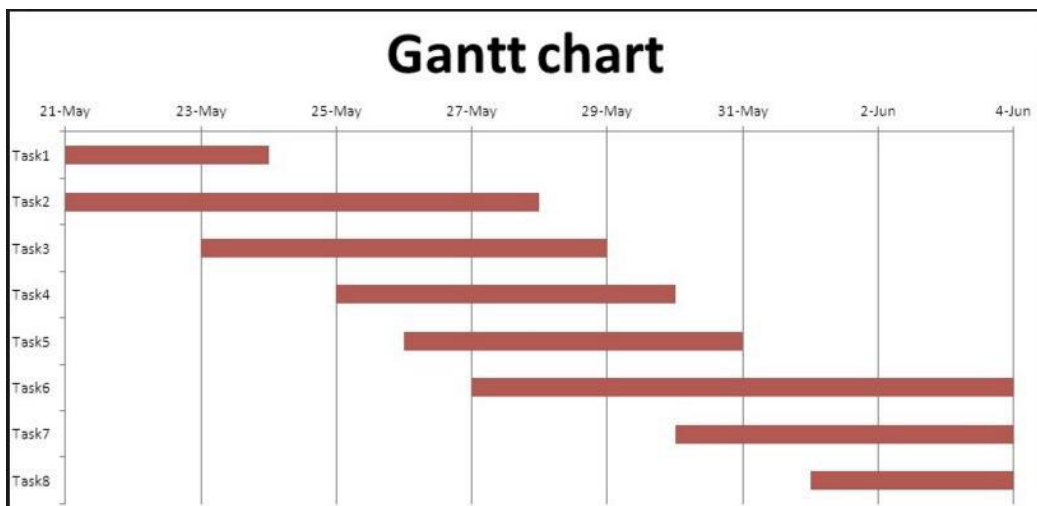
Application

Hardware





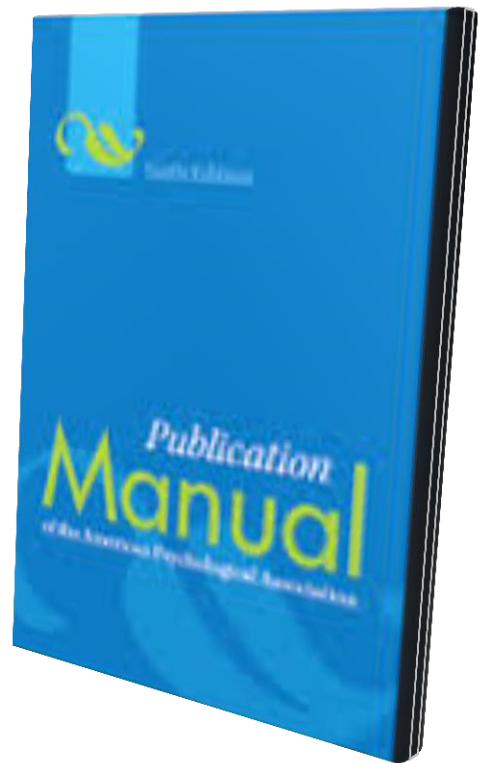
a chart in which a series of **horizontal lines** shows the **amount of work done** or production completed in **certain periods of time** in relation to the amount planned for those periods.



... a **brief discussion** on the main points or issues from your proposal



... a **list of works** cited within the text





Book

Basic Format:

[1] J. K. Author, "Title of chapter in the book," in Title of His Published Book, xth ed. City of Publisher, Country if not USA: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx–xxx.

Example:

[1] B. Klaus and P. Horn, Robot Vision. Cambridge, MA: MIT Press, 1986.

Report

Basic Format:

[1] J. K. Author, "Title of report," Abbrev. Name of Co., City of Co., Abbrev. State, Rep. xxx, year.

Example:

[1] E. E. Reber absorption in the earth's atmosphere," Aerospace Corp., Los Angeles, CA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.

Online Sources

Basic Format:

[1] J. K. Author. (year, month day). Title (edition) [Type of medium]. Available: [http://www.\(URL\)](http://www.(URL))

Example:

[1] J. Jones. (1991, May 10). Networks (2nd ed.) [Online]. Available: <http://www.atm.com>



Book

Basic Format:

Author name, publication year, work title, publication city, and publisher

Example:

Arif, A. (2016). *Software Engineering*. Kuala Lumpur: Academic Press

Online Sources

Basic Format:

Author. (Year [use n.d. if not given]). Article or page title. Larger Publication Title, volume or issue number. Retrieved from <http://url address>

Example:

BSN Learning Center (2016, October). *Institution Manual*. Retrieved from BSN website <http://www.bsn.com/manual>



Pusat Pengajian
Pengkomputeran
SCHOOL OF COMPUTING

Universiti Utara Malaysia

COLLEGE OF ARTS AND SCIENCES
UNIVERSITI UTARA MALAYSIA

PRACTICUM STIX3912
SEMESTER 1 SESSION 2016/2017 (A161)

PROPOSAL

Title: _____

STUDENT

Matric No. : _____
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Email : _____
Mobile : _____

ORGANIZATION

Name : _____
Address : _____

SUPERVISOR (ORGANIZATION)

Name : _____
Telephone : _____
Fax : _____

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1.4 Scope

1.5 Project Significance

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2.2 Feasibility Study

2.2.1 Tools (hardware, software, database)

2.2.2 Cost Estimation

2.3 Gantt Chart

3. SUMMARY

References

Appendices

Prepared by:

Student's Signature: _____ Date: _____

(_____)

Endorsed by:

Organization's Supervisor Signature: _____ Date: _____

(_____)

Company's Stamp:

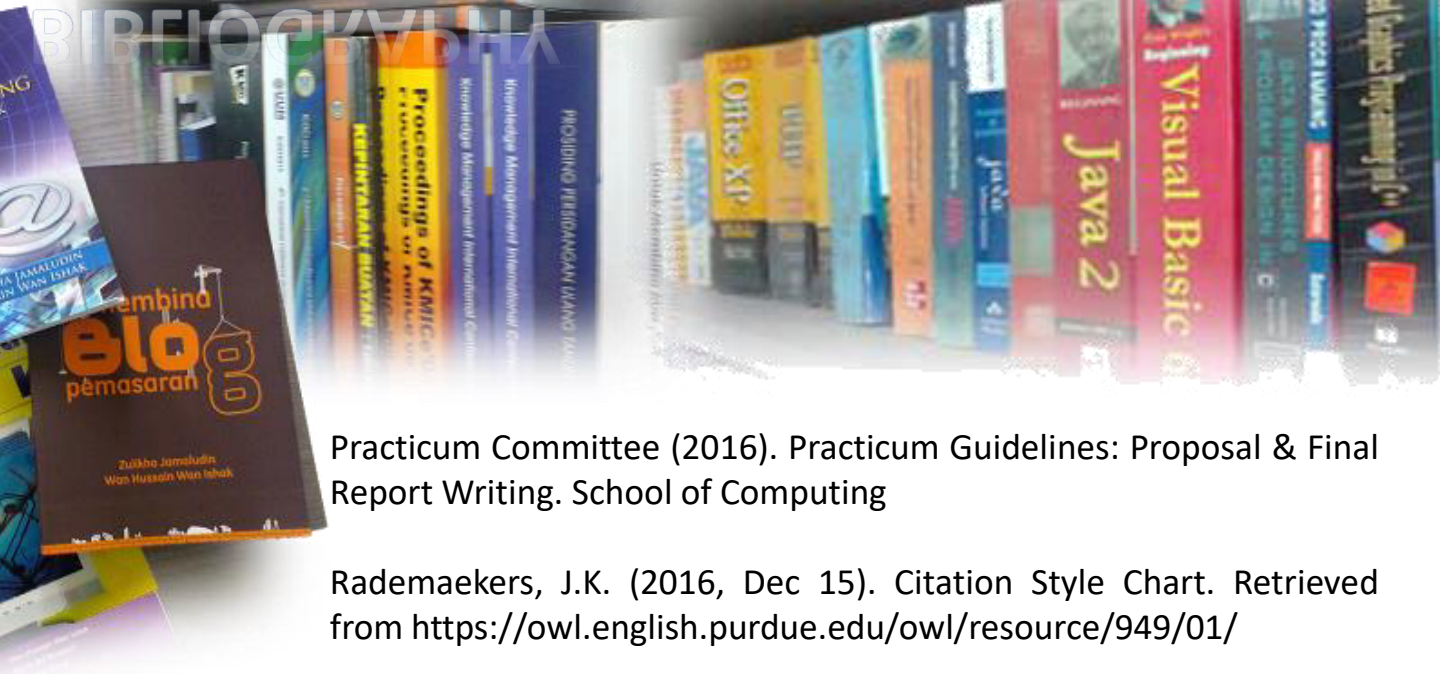
WHEN TO SUBMIT?

WHEN TO SUBMIT?



**TWO
WEEKS**

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