



## **KECEMERLANGAN PENYELIAAN PASCASISWAZAH DAN PENERBITAN**

Centre For Academics Excellence & Scholarship (CAES)  
Dewan UTeM 1, Kampus Teknologi  
Universiti Teknikal Malaysia Melaka (UTeM)

9 Sept 2020

Zahriladha Zakaria | PhD  
Profesor

Pusat Pengurusan Penyelidikan & Inovasi  
Universiti Teknikal Malaysia Melaka



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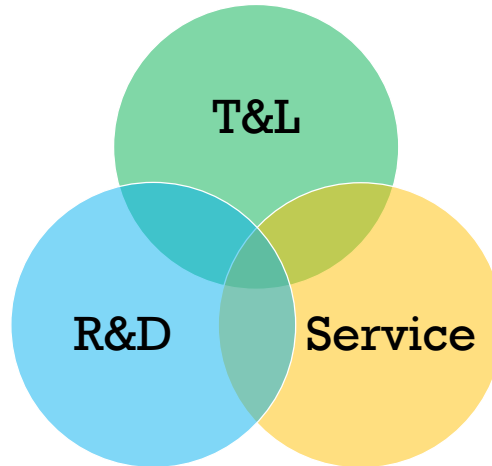
## **ABOUT**

- Postgraduate Supervision (main)
  - PhD – 6 (graduated), 11 (on-going)
  - MSc – 15 (graduated), 1 (on-going)
  - MEng (Taught-course) > 25
  - Active - 12
- Undergraduate Supervision > 50, since 2011
- Publication in
  - Scopus: 308 doc.
  - (h-index: 13)
  - WoS: 131 doc.
  - (h-index: 8)



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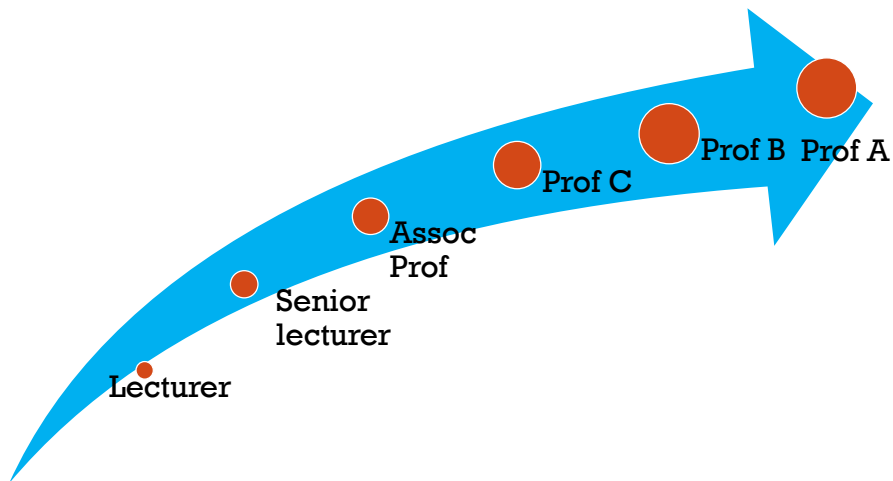
# ACADEMIC PILLARS



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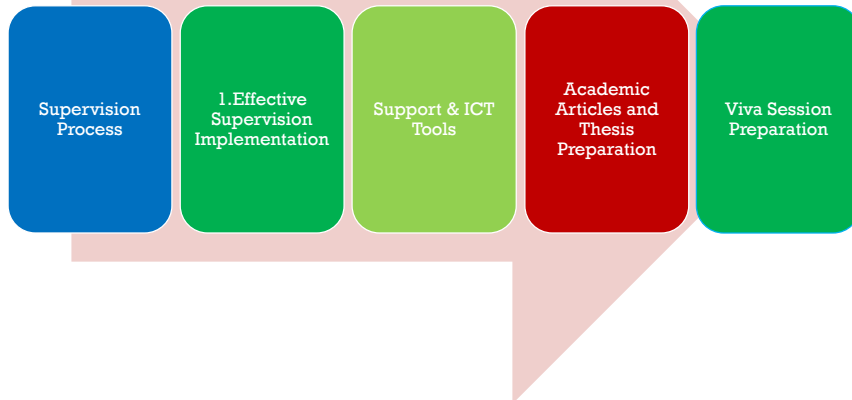
# ACADEMIC LADDER



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# HIGHLIGHTS



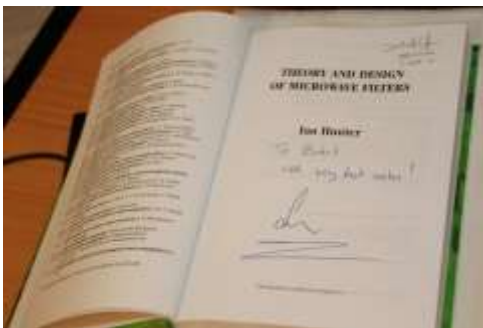
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# MY SUPERVISOR, MY MENTOR



Professor Ian Hunter  
PhD Supervisor  
Dec 2006 – Sept 2010  
University of Leeds, U.K



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# DEFINITION

“A **research supervisor** (also known as thesis/ dissertation advisor) is a member of a university faculty whose role is to **guide** graduate students who are candidates for a doctorate/ master, helping them in **shaping, refining and directing** the students' choice of **sub-discipline (research topic)** in which they will be examined or on which they will write a thesis/ dissertation.



Students generally choose advisors based on their areas of interest within their discipline”

Miles T. Bryant, 2003

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# SELECTING A SUPERVISOR

- Early stage
- Very important decision
- Expert in the area of research
- Research articles published by the potential Supervisor
- Research grants – to support equipment, material, publications, etc
- Number of students (graduated and on-going)
- Research team
- Ask his/ her students or ex-students. To be fair, ask several students under his/ her supervision to obtain his/ her supervision style



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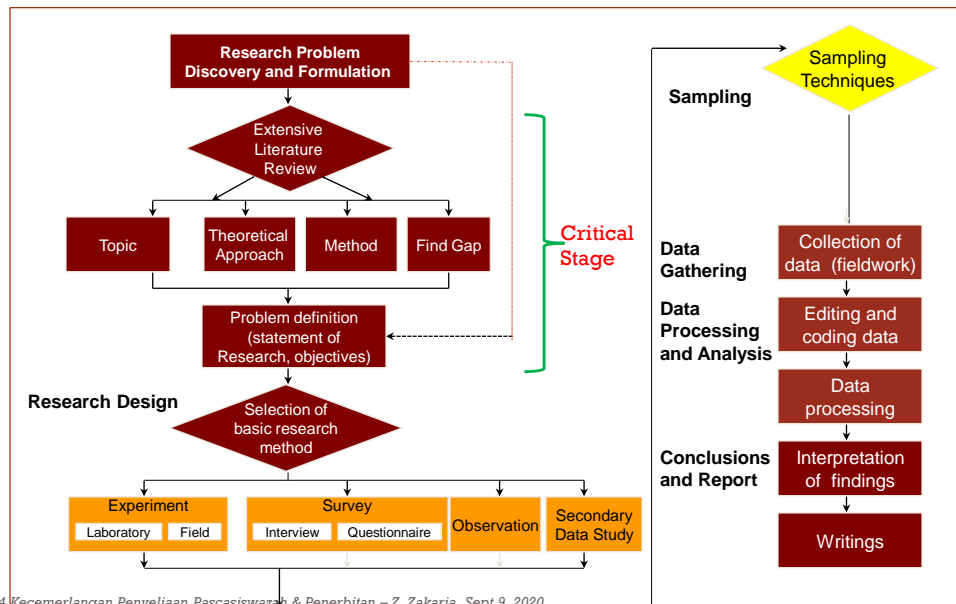
# TRANSITION COUNSELLING OF UNDERGRADUATES TO POSTGRADUATES



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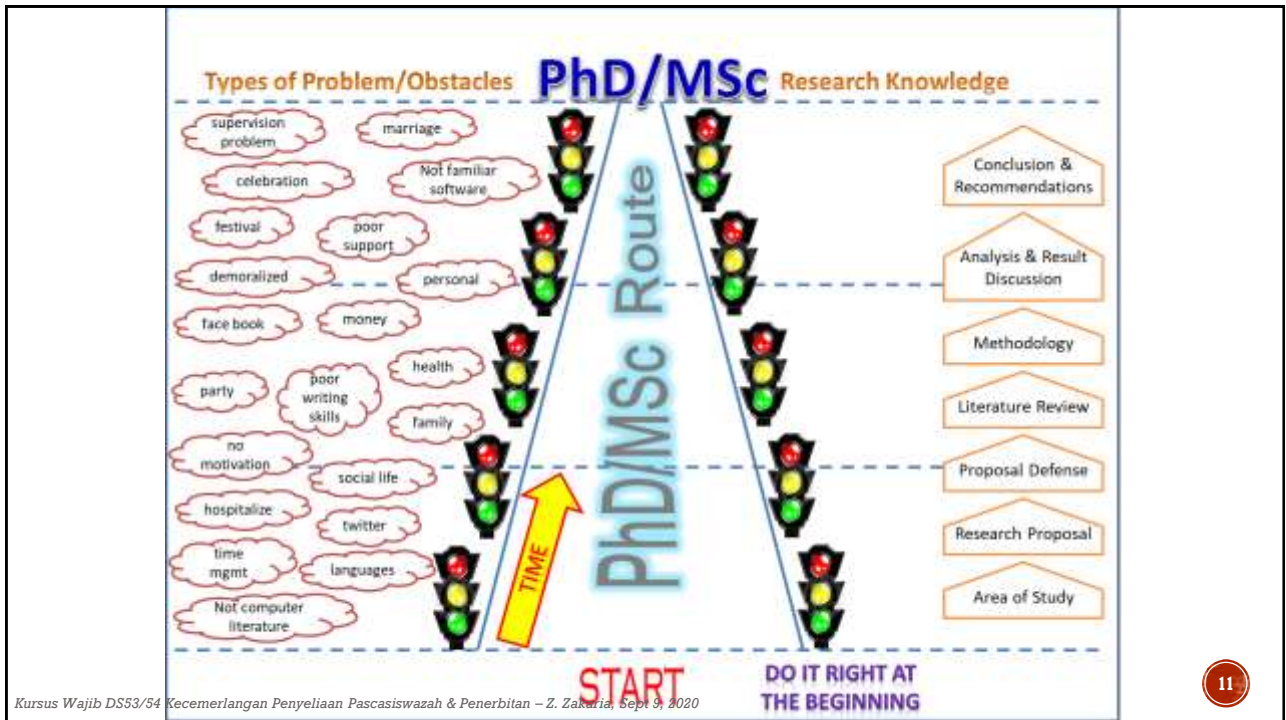
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## Research Process Big PICTURE



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## RESEARCH PLANNING

- Knowing vs Doing
- Implementation requires planning
- Failure to plan is a plan to failure
- Good traits
  - Clear plan
  - Strong grasp of the fundamentals/theory
  - Extensive critical reviews
  - Sufficient facility
  - Detail experimentation
  - Thorough analysis
  - Passionate





# RESEARCH PLAN

## 1. Planning

- Develop
  - Micro: K Chart
  - Macro: Gantt Chart
- Manpower and facilities requirements
- Collaboration
- Funding

## 2. Execution

- Literature review; Indexing of papers end notes
- Summary of contents
- Regular discussions

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# RESEARCH PLAN

## 3. Results

- Results organization – indexing
- Results reporting

## 4. Publication

- List of journals
- Publication plan
- Writing retreats & template

## 5. Protection & Commercialization (beyond)

- IPR (patent, copyright, trademark) filing
- Market and competitiveness analysis

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# EFFECTIVE SUPERVISION

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## PhD Is a Lonely Journey

- Student is alone scientifically...
- Student is alone emotionally...
- Student is alone in his/ her growth...



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# Student needs “support”

During MCO



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(1) Student expectations?

VS

(2) Supervisor expectations?

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The 'Art of supervision' is to get an average student to do superior work and a good student to excel beyond expectations



UTeM Convocation, 2017. One PhD student (conversion from MSc to PhD) obtained Chancellor award. One MSc student obtained Pro-Chancellor and Best Thesis award

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## Role of the Supervisor

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## Role of the Supervisor

Good supervision involves:

- ✓ Encouragement
- ✓ Advice
- ✓ Support
- ✓ Constructive suggestions
- ✓ Critical appraisals
- ✓ Pastoral care
- ✓ Encouraging and developing independent thinking
- ✓ Willingness to listen and engage intellectually



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## Role of the Supervisor

A supervisor should:

- ✓ Create a comfortable atmosphere where students are not frightened to ask questions
- ✓ Help students find their way through literature
- ✓ Provide guidance in topic formulation and research design
- ✓ Set the standard for research work through examples
- ✓ Provide constructive comments on writing style



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## Responsibilities of the Supervisor

### ENCOURAGE

When  
experiments /  
simulations  
fail



### CHALLENGE

When  
experiments /  
simulations  
work



### GUIDE

When  
necessary



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## Role of the Student

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## Role of the Student

- ✓ A PhD is an incredibly personal journey, be prepared to go through peaks and troughs.
- ✓ The student must drive the project and raise matters of concern promptly without waiting for others to do so for them

Don't be afraid to ask questions  
if you don't understand



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## Role of the Student

The goal of a PhD student is to:

- ✓ Be trained in a specific area of research and become an authority in that area
- ✓ Learn to be an independent researcher
- ✓ Contribution to new knowledge



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## Role of the Student

- ✓ Write journal papers, conference papers and internal reports – It will help write your thesis and improve your skills
- ✓ Contribute to other research activities, such as
  - ✓ Reviewing conference papers
  - ✓ Organising and participating in seminars (where possible)
  - ✓ Giving presentations at conferences, workshops, etc.

## Role of the Student

- ✓ Keep record of meetings with your supervisor
  - ✓ What was said in this meeting?
  - ✓ What you are supposed to do before the next meeting?
  - ✓ What to bring to the next meeting?

This is important because your supervisor may have more than one student and may not remember everything between meetings



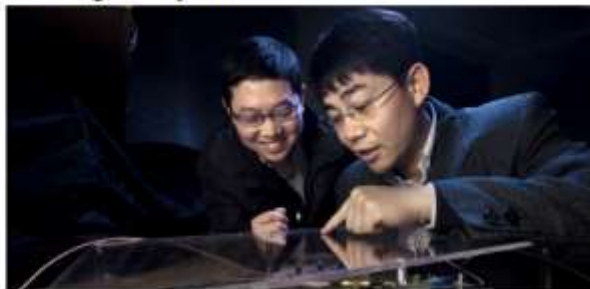
# Responsibilities of the Student

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## Responsibilities of the Student

- ✓ Acquire the necessary methodological expertise and content knowledge for timely completion
- ✓ Meet your supervisor regularly to review research progress
- ✓ Regular reading of research literature to acquire an in-depth knowledge of your research area



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## Responsibilities of the Student

- ✓ Devote sufficient time for your research (e.g. 45 hours per week)
- ✓ Avoid activities that interfere with timely completion of each phase of your PhD



Make sure that you undertake a progress review periodically to ensure that you have reached key research milestones

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## Responsibilities of the Student

- ✓ Maintain a suitable record (weekly) of research activities and progress
- ✓ Try to develop a good relationship with your supervisor and your peers



Take ownership of your research and your progress



- ✓ Attend workshops on 'how to write a paper/thesis' where possible in order to develop your skills further

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# Supervisor-Student Relationships

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## Supervisor-Student Relationships

- ✓ A successful outcome depends on the relationship between the student and the supervisor
- ✓ Specific research goals must be an agreement between the supervisor and the student
- ✓ Regular discussions are essential to facilitate research progress

Many of the common problems experienced over a PhD are related to difficulties in the student-supervisor relationship



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## Supervisor-Student Relationships

- ✓ A supervisor should provide advice on time management – It is the responsibility of the student to actually manage the time.
- ✓ In some cases, a supervisor may have limited experience with research supervision – The partnership is a learning experience for both student and supervisor



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## Supervisor-Student Relationships

- ✓ Supervisors will tend to work harder to help students who work hard
- ✓ You may not be the smartest person in the research group but you can be the hardest working person which is more likely to get results – Most academics who succeed do it through hard work.



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# Checklist for a potential Supervisor

(D. A Isenberg et al, 2000)

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TABLE 1. Suggested check list for a potential supervisor

- 
- Does the student seem genuinely committed and have an enquiring mind?
  - Emphasize that 2–3 yr of full-time research is a major commitment and demands very hard work.
  - Encourage the student to write an essay on the proposed research topic to gauge their understanding of what is planned.
  - Ensure that there are good support systems (people and machines!) available for the student.
  - Explain clearly what form of supervision and encouragement you will provide.
- 

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# Checklist for a potential Student

(D. A Isenberg et al, 2000)

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TABLE 2. Suggested check list for a potential student

- 
- Does the research project really interest you and do the research goals seem attainable?
  - Seek objective evidence about the track record of your potential supervisor and his/her department (if not known to you).
  - Do not take an MD/PhD without solid assurance that the project is adequately funded.
  - Make sure your supervisor has clarified how you will be supervised and supported during your research.
  - Familiarize yourself with the local university's rules and regulations about writing up your thesis.
- 

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## Qualities of a good research supervisor

<https://www.youtube.com/watch?v=xQhIKxP0jDc>

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## SUPPORT AND ICT TOOLS

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## Student needs to be exposed with ICT tools and related support

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### ICT Skills needed

- **Student/ Researcher needs to equip themselves with ICT skill in:**

Accessing and exploring knowledge

Managing research materials

Structuring/Sensitizing research materials

Communicating and collaboration

Academic Writing

Knowledge disseminating/**Virtual Visibility**

Statistical Analysis Software

Presenting result

Many more related tools (learn from others)

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## What are my research tools?

- **Turnitin** – similarity checks
- **EndNote** / **Mendeley** / **Etc** – referencing/ bibliography
- **Origin - Graph**
- **Online Database** – Expertise profiling and research networking tools, e.g. ResearchGate, Google Scholar, Academia, etc.
- **Onedrive/ Dropbox/ Google Drive** – Cloud storage. Backup your data!



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## VISIBILITY, NETWORKING & SUPPORT



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# ACADEMIC ARTICLES AND THESIS PREPARATION

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## Why & Where do we publish?

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# KEYS TO ACADEMIC SUCCESS



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## Journal Submission Target

Web of Science, WoS (Clarivate Analytics)

**Clarivate**  
Analytics

Scopus

<http://www.scopus.com/>

WEB OF SCIENCE™

REFEREED & PEER REVIEW

ICFAI/e-LEARNING/IN-HOUSE UTeM  
Journals/Professional Associations



OTHER CITATION NON-SCOPUS/WOS

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# Why SCOPUS/ WoS?

- **Credibility**
- **Recognition**



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➤ IF  
➤ WoS  
➤ CITATION



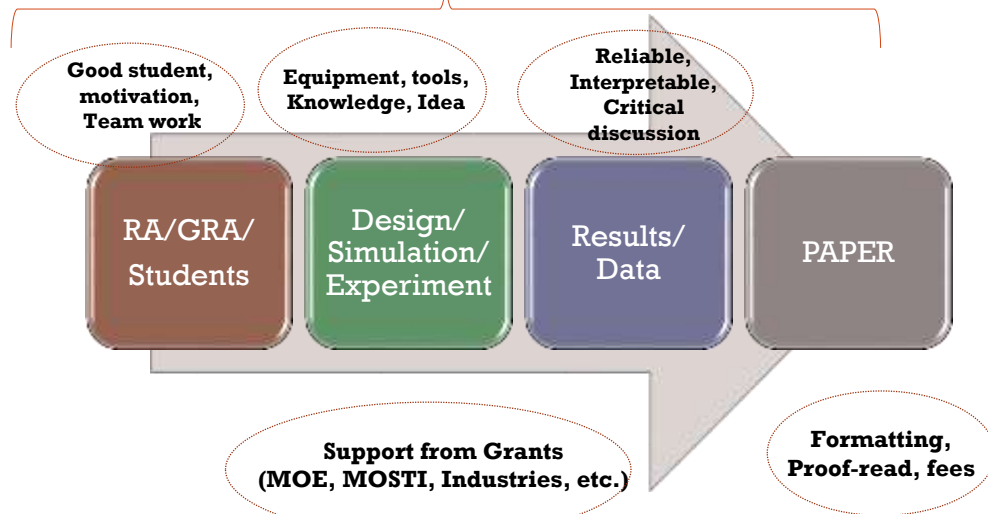
**HIGH QUALITY  
HIGH IMPACT**

"YOU DON'T HAVE  
TO BE GREAT  
TO START,  
BUT YOU HAVE  
TO START  
TO BE GREAT." Zig Ziglar

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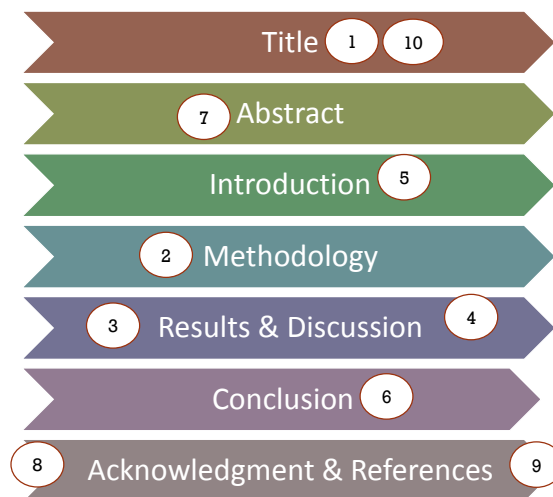
# Managing Journal Paper



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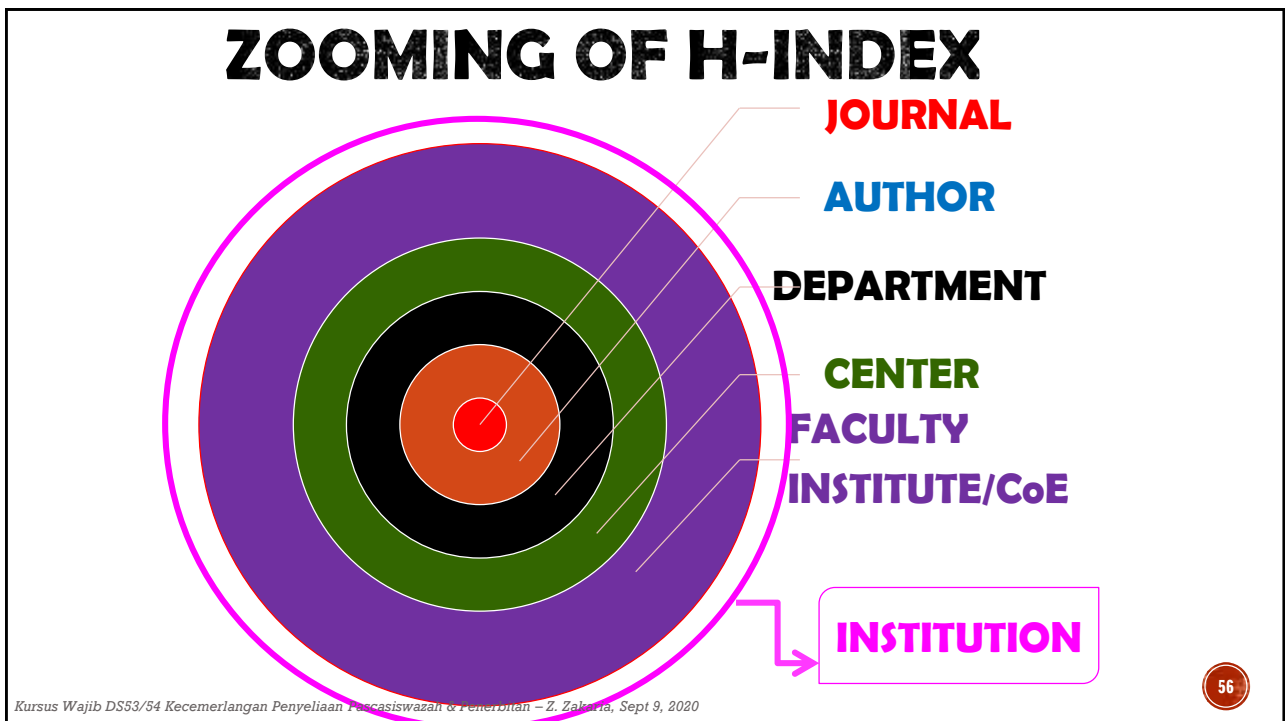
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## Journal Paper Template Where to start?



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## Why Do We Publish?

- ☐ **Academic Profile – Research Impact – H-index**
- ☐ **Grant application! (LRGS, TRGS, etc)**
- ☐ **MyRA (Malaysia Research Assessment)**
- ☐ **World University Rankings – QS, THE**
- ☐ **Career Path, Job PROMOTION and Satisfaction!**



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## Selamat Datang

YBhg. Prof. Dato' Dr. Muhammad Fauzi bin Mohd Zain  
PENGARAH, BAHAGIAN KECEMERLANGAN PENYELIDIKAN IPT,  
JABATAN PENDIDIKAN TINGGI,  
KEMENTERIAN PENGAJIAN TINGGI MALAYSIA

## Taklimat

# MyRA 2020

## 11 September 2020

Jumaat | 10.00pg - 12.00 tgh  
Dewan Kuliah FKP, UTeM

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# ACTIVITIES

Log in into Web of Science/ Scopus

Search for a specific journal in your field

Search under different categories

Determine how many categories

Search details specific journal

Determine total number journal listed

Determine impact factor based on categories

Check on your own profile (author's profile)

Determine author's H-Index, Citation

## Thesis/ Dissertation Preparation



## THESIS/ DISSERTATION SUPERVISION CAN BECOME MORE SERIOUS

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### Oxford student killed himself hours after being told PhD thesis wasn't good enough

By DAILY MAIL REPORTER  
UPDATED: 17:45 GMT, 25 February 2009



[View comments](#)

An Oxford University student killed himself just hours after being told his PhD thesis needed to be improved, an inquest has heard.

A coroner was told how former Buddhist monk Juncnok Park hanged himself after what he saw was a colossal disappointment and an embarrassment.

The criticism was probably the first time the South Korean mature student had ever failed at anything in his life.



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# Indonesian professor killed by student over thesis

ASEANPLUS NEWS

Wednesday, 04 May 2016

6:32 AM MYT

By Khristian Ibarrola



TheStar



Source:  
<https://www.google.com/search?q=Good+Research>

## THESIS/ DISSERTATION PREPARATION

Follow the guideline/ policy set by PPS

- Notice of Thesis submission
- Number of words for MSc and PhD
- Format of Thesis – follow UTeM's style

## VIVA-VOCE PPREPARATION

## VIVA PREPARATION

Follow the guideline/ policy set by PPS

- Thesis submission to PPS through Faculty
- Appointment of examiners
  - PhD: 2 external & 1 internal examiners
  - MSc: 1 external & 1 external examiners
- No conflict of interest with the examiners
- Recommended to appoint the examiners that are in the similar field

## VIVA PREPARATION

- Make sure you know exactly the research you are doing
- Re-read your thesis carefully. If you notice any mistakes, don't panic
- Make summary notes on the main points on each page
- Practise telling the story of the whole research in 2 minutes
- Practise telling the story of different chapters, each in 2 minutes
- Identify areas of weakness and make notes on each
- Identify the elements of originality in your thesis
- Identify your contribution to knowledge
- Identify the theoretical, research, and practical implications of your findings

## VIVA PREPARATION

- Mini VIVA (Mock VIVA) to boost confident
- During the VIVA (UTeM's guideline)
  - Slide presentation for 20 minute, followed by Q & A
  - Depending on panel of examiners, normally they will start by asking questions based on your thesis, chapter-by-chapter, and guided by the Chairman.
  - The most important parts are i) Problem statement & objective of research, ii) Critical review, iii) Reliable methodology, iv) Novelty and contribution to the knowledge

## VIVA PREPARATION

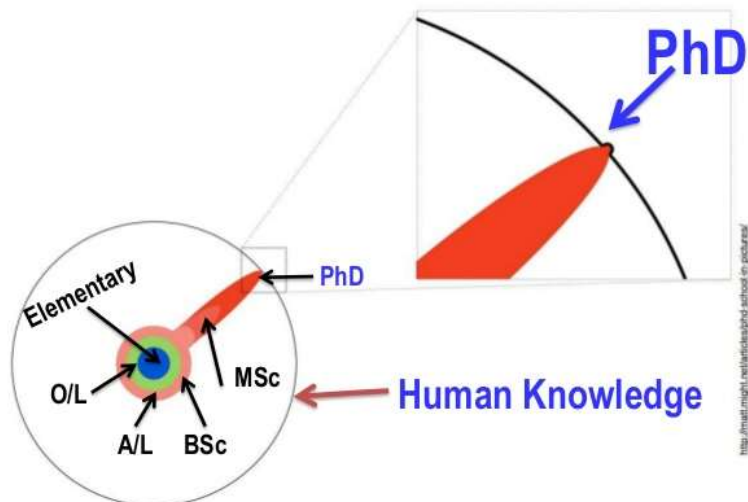
- The outcome of the VIVA
  - Immediate award of the degree without any changes being made to the thesis. Although this is possible, it is very rare. No further work needed
  - Award of the degree subject to minor amendments. This is a common result. Amendments to be made and submitted to the examiners (normally to internal) within 6 month
  - Award of the degree subject to major amendments. This is also a common result. Amendments to be made and submitted to the examiners (normally to internal) within 9 month
  - Revision of the thesis and a requirement to resubmit. You may feel disappointed with this result but it is not uncommon and the vast majority of students go on to resubmit successfully. You may be required to rewrite substantial parts of the thesis and submit within 1 year
  - Re-VIVA
  - Thesis failed with no right of resubmission



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## What is a PhD?



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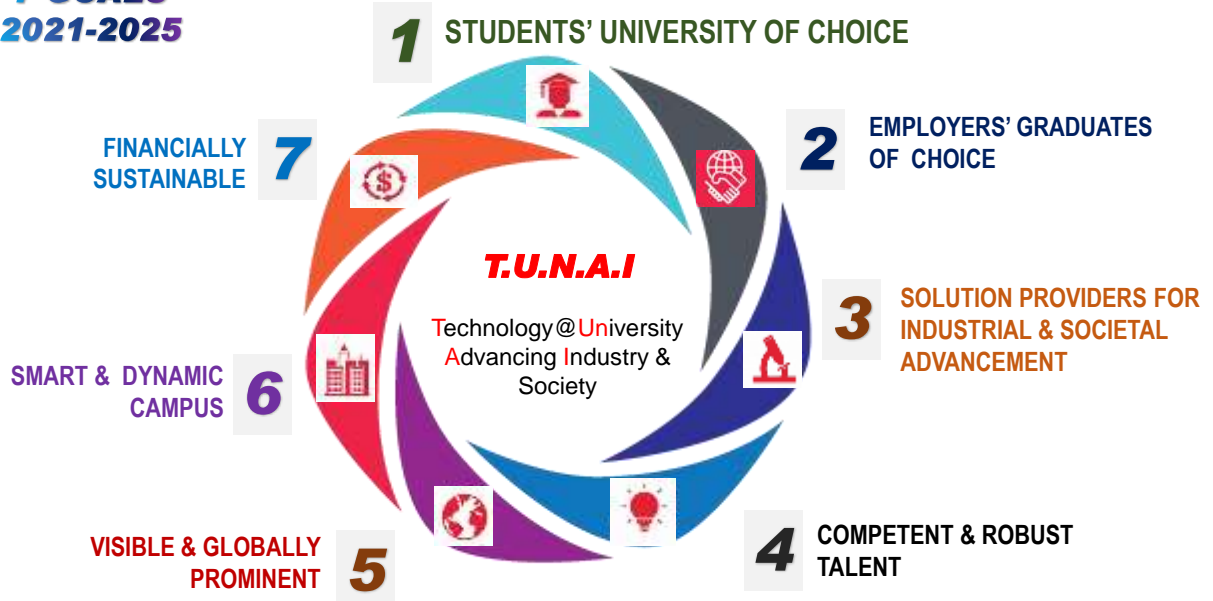
# EXTRAS

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## 7 GOALS 2021-2025



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There's an old African proverb that says "If you want to go quickly, go alone. If you want to go far, go together." We have to go far - quickly. And that means we have to quickly find a way to change the world's consciousness about exactly what we're facing, and why we have to work to solve it.

— Al Gore —

AZ QUOTES

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# STUDENTS' ACHIEVEMENT

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## LASTLY...



- Being a lecturer:  
Research Supervisor = Research Manager
- Work smart and hard
- Be good in what we do
- Avoid unnecessary confrontation
- Stay humble and be professional

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# Thank you



For further information, kindly contact:

**Zahriladha Zakaria**

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<http://zahriladha-zakaria.weebly.com/>

<http://orcid.org/0000-0003-1467-405X>

[https://scholar.google.com/citations?user=\\_SOdHe4AAAAJ&hl=en](https://scholar.google.com/citations?user=_SOdHe4AAAAJ&hl=en)

[https://www.researchgate.net/profile/Zahriladha\\_Zakaria](https://www.researchgate.net/profile/Zahriladha_Zakaria)

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