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| 32144  Technology Research Preparation | **Week 2 Tutorial 1 Overview** | |
| **Topics**  **Covered:** | What is Research? |
| Choosing a Research Topic |
| Who are Stakeholders? |
| **Points:** | 6 |
| **Date Due:** | Week 2 – In Class |
| **Submission** | In-class contribution to discussions |
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**Week 2 Tutorial Preparation**

1. **READINGS**: Refer to Canvas Week 2 **Lecture *and* Tutorial Preparation documents**. Please be sure to read the material provided in this module.

NB: You may also wish to use Internet and UTS library sources. Be sure to share interesting references or links with your tutorial members that you have identified.

1. **Identify your research interests** – Think about and make some notes about your research interests and potential research topic/ ideas. Be sure to cover the following:
   1. Industry sector (aerospace, automotive, health, defence, business, education, environment, government, etc.)
   2. Research domain (e.g. Cyber Security, Privacy in Artificial Intelligence, Digital Engineering and Data Quality, Automatic Recruitment and Gender Bias, Social Informatics, etc.)
   3. Research topics/ ideas (Try to articulate the concern or issue you have and what you think the solution might be)
   4. List the main concepts and keywords (e.g. AI, Big data, Web Design, etc.)
   5. Concept/ keyword definitions (what are some of the main definitions that your research relies on?)
   6. Research frame or lens (how do you see your research topic, is it through a technical, social, socio-technical, management based lens?)

NB: We will continue this activity in Week 3, so you should see this as a starting point for discussions and further exploration. Not a final commitment.

**3. Who are MY POTENTIAL stakeholders?** – Identify the different types of potential stakeholders that may surround your targeted topic/ research ideas. You don’t need to be overly detailed about who they may be here (remember it is early days yet), however you might like to think of your potential stakeholders terms of, for example, do you have:

1. Primary stakeholders - those directly impacted?
2. Secondary stakeholders - those that may benefit indirectly?
3. Internal and external stakeholders – do your stakeholders belong to an identifiable group, e.g., an organisation or a community group?
4. Social and non-social e.g., Social stakeholders include people and organisations who may be involved in your research project or may be associated via business interests. On the other hand, nonsocial stakeholders refer to entities such as animals, the environment, and generations of people who have not yet to be born.

**4. ORGANISE YOUR RESPONSES TO THE 5 IN-CLASS TUTORIAL ACTIVITIES** – Read the tutorial activities listed below and be sure to utilise the Week 2 readings on Canvas to prepare your responses and be ready for group discussions. Thanks.

**In-Class Tutorial Activities**

1. **What is Research?**

**ACTIVITY 1: Introductions** - Introduce yourself to others in your tutorial, include your:

1. Name and course, and briefly describe research interests and expectation of the subject.

**ACTIVITY 2: Group Discussion** – Discuss the following.

1. What is “Research”?
2. Why do we need to do Research?
3. What are the differenttypes of Research?
4. What are differences between Academic and Industry Research?
5. **Choosing a Research Topic**

**ACTIVITY 3: Group Discussion** – Based on the preparatory work you have undertaken (refer to #2 on previous page), discuss the following topics.

1. What is my potential/ targeted research topic?
2. Why does this interest me? - How does it relate to, for example, my broader knowledge or experience, my principles and what I stand for? What things in my personal and academic background have shaped my beliefs?
3. What learning do I need to do about the research topic itself and how much do I understand the industry sector and research domain?
4. What are the main concepts and keywords of me topic and how can they help me build my research frame or lens?

NB: You will find useful information to think about your research topic in: **Denscombe (2012) Appendix 4 on ‘Choosing a Topic’** – available on TRP Canvas site in the Week 2 module.

1. **Who are Stakeholders?**

**ACTIVITY 4: Group Discussion** – Discuss your research ideas/ topic relative to the following types/ groups of stakeholders, who may be:

1. People affected by the impact of an activity
2. People who can influence the impact of an activity.
3. Individuals, groups, a community or an institution.

**ACTIVITY 5: Group Discussion** – Discuss importance of understanding your stakeholders – and conducting a stakeholder analysis, relative to **one** of the following:

1. Identifying the right set of stakeholders in terms of their profile, roles and interests.
2. Identifying potential winners and losers that may result from the project.
3. Eliminating/ reducing the potential negative impacts.
4. Identifying people who have rights, interests, skills, abilities and resources to participate in, inform or influence the project.
5. Identifying collaborations that can be established.
6. Eliminating risks of conflicts of interest.
7. Managing stakeholders’ expectations.

NB: You will find useful information about Stakeholder Analysis in**: Blackman (2003) Stakeholder Analysis Chapter** – available on TRP Canvas site in the Week 2 module.