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| 32144 Technology Research Preparation | **Week 3 Tutorial 2 Overview** |
| **Topics** **Covered:** | What is Research? |
| Choosing a Research Topic |
| Who are Stakeholders? |
| **Points:** | 6 |
| **Date Due:** | Week 3 – In Class |
| **Submission** | In-class contribution to discussions |
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**Week 3 Tutorial Preparation**

1. **READINGS**: Refer to Canvas Week 3 **Lecture *and* Tutorial Preparation documents**. Please be sure to read the material provided in this module.

NB: In addition to the above resources, you may also wish to refer back to Week 2’s Preparatory Reading List.[[1]](#footnote-1)

1. **KEEP DEVELOPING your research TOPC** – Keep developing your research topic and area. Be sure to confirm the following (from Week 2):
	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: You should now have identified a suitable research domain and topic, supported by keyword definitions and a developing lens. Now is the time to make a firm commitment to your research topic.

**3. CONTRIBUTION OF YOUR RESEARCH**– Explore how your research topic or the outcomes of related research studies contribute to the growth/ advancement of the target industry, organisation, stakeholder groups, or individuals. What is its significance?

**4. IDENTIFY AND BE READY TO SHARE** – At least one relevant research article from either an academic or industry database. You should use academic or industry databases (such as ProQuest Central, Google Scholar, *Scopus* (Elsevier) *Web* of Science, and Discovery (EBSCO)) or industry report databases (Gartner.com, IBIS Industry World Reports), which are available via the UTS Library website (Refer to Week 3 Lecture).

**In-Class Tutorial Activities**

1. **Selecting and narrowing your research topic**

**ACTIVITY 1: Exploring Your Research Domain/ Topic** – In breakout groups, present your research domain/ topic discussing the following points:

1. What was the most relevant research article you have identified? Why?
2. What was the research contribution/ outcome of this article?
3. How does this article’s contribution/ outcome advance or benefit the target industry, organisation, stakeholder groups, or individuals?

**Breakout Groups & Discussion Process Requirements** – Students should establish a collaborative discussion forum by implementing the following process:

1. Select a leader or chair who can provide structure to the discussions and keep time.
2. Select a note keeper to write notes from each team member’s discussion. Alternatively, each student can take a turn in this role, providing notes of the discussion.
3. Each student presents their selected paper in a **1-minute rapid-fire pitch**.
4. Together, the breakout group discuss the issues raised by the student in a **2-minute rapid-fire brainstorm**, providing feedback and constructive criticism.
5. **UNDERSTANDING RESEARCH SIGNIFICANCE**

**ACTIVITY 2: Exploring Research Significance** – In breakout groups, discuss your research topic, debating the following points:

1. What is the potential contribution/ outcome of your research domain/ topic?
	1. Design a system
	2. Identify ways of
	3. Establish
2. What is the significance of this contribution/ outcome?
	1. This system will improve …
3. Who are the major stakeholders and target industry (or organisation),
4. Discuss the research contributions / outcomes relative to the scope of the research and stakeholders identified.
5. How would you describe the type and level of innovation?
6. Capture five (5) keywords that reflect the domain/ topic and its significance,

**Breakout Groups & Discussion Process Requirements** – Students should continue the culture established in your collaborative discussion forum for Activity 1 and **implement the same rapid fire pitch and feedback processes**.

1. Refer to ‘What is Research? And Week 2 & 3 Lecture Slides – both available on TRP Canvas site. Also refer to types of Research - <https://www.scribbr.com/methodology/types-of-research/> [↑](#footnote-ref-1)