





| Ac | ademic vs. Industry | |
|------------------|----------------------------|-----------------------------|
| Difference | es between Academic and In | dustrial Research |
| | | |
| Typical aspects | University | Industry |
| Focus of the R&D | Basic research; curiosity- | Applied research; exp. |
| | oriented | develop. |
| Basic rationale | Advance knowledge | Increase efficiency |
| Aim | New ideas | Profits |
| Characteristics | Idea-centered | Practical, product-centered |
| Framework | Open | Close, confidential |
| Evaluation | By peers | By the boss |
| | Open-ended | Tight, predetermined |
| Schedule | Open-ended | right, predetermined |



What is research? Primary research and sources

- Primary research-study of a subject through firsthand observation and investigation:
 - Your strengths and interests
 - Analysing a workplace, conducting a survey or an interview
 - Carrying out a laboratory experiment, building apparatus
 - Analysing a literary or historical text, a film or a performance
- Primary sources of information include statistical data, historical data, works or art...





| Evampl | e: Synth | osis m | atrix too | | | |
|------------------------|---------------------------------|--------------------|-------------|----------------------|--------|---------------------|
| слаттр | e. synu | | | Л | | |
| | | | | that decline | | |
| | Research | | Th | nemes | | Research |
| | Research Questions | training | | | ageing | Research methods |
| Article 1 | Research Questions (1)(2) | training | Th games | memes motor skill | ageing | |
| Article 1 Article 2 | Questions | training | | | ageing | methods |
| | Questions (1)(2) (2) | training ✓ ✓ | | | ageing | (A)(B) |













Other analysis methods Threat of potential A - Market or Social media, etc. Bargaining powe of buyers Market analysis: ĥ Competitive Force Model (McGonagle, John J, (1999), Competitive Strategy: Techniques for Analyzing Industries and Competitors. Competitive Intelligence Review, 1999-06-22, Vol.10 (2), p.86) at of substitute goods/services Bargaining power of suppliers SWAT analysis – strengths, weakness, opportunities and Threats (https://www.business.qld.gov.au/starting-business/planning/marketcustomer-research/swot-analysis) build on strengths (S) minimise weakness (W)
 seize opportunities (O) • counteract threats (T). Broad factor Analysis (PEST analysis)- political, economic, socio demographic and technology **Social Media Analysis:** Natural language processing—(NLP), New analytics, opinion mining, text analytics, etc 14

Ass2 Marking criteria

INTRODUCTION

Presents the problem, sets up the field, and states the student's point of view; Clearly stated and well-written aims, objectives and significance of the knowledge contribution of the review; Orients the reader to

CRITICAL EVALUATION

The critical evaluation process that sets out an appropriate logic and consistent method; the Ability to search sources appropriate to the topic to locate relevant, high-quality articles; the Ability to evaluate whether the articles are appropriate to the research, applying evaluation criteria—the report by providing an overview.

LITERATURE REVIEW

Coherent syntheses of literature; Ability to critically analyse the literature; Logical progression of ideas from one section to another and within each section, including good paragraphing; Ability to paraphrase and avoid overdependence on the direct quotation.

Ass2 Example 1 - Excellent

Table of Contents

| List of Figures | 2 |
|---|----|
| List of Tables | |
| Introduction | 4 |
| Critical Evaluation | 5 |
| Article 1: Achieving cybersecurity in blockchain-based systems: A survey | 5 |
| Article 2: Smart Contract Development Model and the Future of Blockchain Technology | 7 |
| Literature Review | 10 |
| Blockchain | 10 |
| Cybersecurity | 10 |
| Financial Technology | 13 |
| Blockchain Cybersecurity in Fintech | 13 |
| Conclusion / Discussion | 14 |
| Reference List | 15 |
| Appendix | 16 |
| | |

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| List of Figures Figure 1 - Blockchain Vulnerabilities to Cyb | per Security 11 |
|---|-----------------|
| Figure 2 - Possible Countermeasures for Blc 12 | • |
| Figure 3 - Smart Contract System | |
| Figure 4 - First Page of Article 1 | |
| Figure 5 - First Page of Article 2 | 17 |
| Figure 6 - First Page of Industry Source | |
| Figure 7 - Title Page of a Book | |
| List of Tables | |
| Table 1 - Evaluating Source (Article 1) | 5 |
| Table 2 - Preparing to Read (Article 1) | 6 |
| | |

Ass2 Example 2 - Good

| Abstract | 2 |
|---------------------------------------|----|
| 1. INTRODUCTION | 4 |
| 2. CRITICAL EVALUATION OF TWO SOURCES | 5 |
| 2.1 LAI, X & PATRICK RAU,(2021) | 5 |
| 2.2 BRAGIAS, A ET AL (2021) | 5 |
| 3. LITERATURE REVIEW | 6 |
| 3.1 TECHNICAL | 6 |
| 3.2 VIOLATE THE RIGHTS OF OTHERS | 7 |
| 3.3 SOCIAL | 8 |
| 3.4 HEALTH | 9 |
| 4. CONCLUSION/ DISCUSSION | 10 |
| Reference List | 11 |
| Appendix | 13 |
| | |

Ass2 Example 3 - satisfactory

Table of Contents

| Literature Review on Security Issues of Internet of Things (IoT) | 1 |
|--|----|
| Introduction | 3 |
| Critical Evaluation of Two Sources | 4 |
| Literature Review | .6 |
| 1. Importance of IoT security issues | .6 |
| 2. Vulnerability of IoT devices | .6 |
| 3. Challenges of tackling IoT security issues and the potential or current solutions | .7 |
| Conclusion | 9 |
| Reference List | 10 |
| Appendix | 12 |

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| Ass3 Example 1 – Excellent | | |
|--|-------------|----|
| Table of Contents Executive Summary: | | |
| Introduction:4 | | |
| Research Aims and Objectives:5 | | |
| Background: 6 Types of Phishing Attacks 6 Current Established Counter Measures of Phishing attacks 7 Limitations of current Phishing attacks. 8 Summarization of Background 9 | | |
| Research Significance and Innovation: .10 Significance within the Cyber Security field: .10 Significance within Industry: .10 Significance within Society: .10 Innovation: .10 |) | |
| Research Concept and Method: 11 Flexibility of Design 11 Data Collection 11 Timeline Framework for Research 12 Measure of Success 12 | L L 2 | |
| Expected outcomes and Conclusion:1 | 3 | |
| Reference List: | 4 | 21 |



Ass3 Example 3 – satisfactory

Contents

| 1. Introduction | 3 |
|---|----|
| 2. Research Aim and Objective | 4 |
| 3. Background | 5 |
| 4. Research Significance and innovation | 10 |
| 5. Research Methods | 13 |
| 6. Conclusion | 15 |
| 7. References | 16 |
| | |



Which is the better **Title**? : contains Keyword(s) and Key issue(s)

example:

1.Deplicating Data to Reduce Network Traffic

2.Deplicating Data Leads to Reduction in Network Traffic







Designing a research method:

• Step 1:

- Decision what decision have you made?
- Action what actions do you plan

• Step 2:

- Rationale why do you want to take those decisions and actions?
- Implications- what are the potential implications of your decision and actions?

• Step 3:

 Implementation Process – how do you plan to implement the decision























Assessment 3 - Project Proposal: Marking Criteria

Assessment Task 3 weighs 40%. There are seven main components to the Task 3 marking criteria:

- Structure, including Cover Page, Table of Contents, Executive Summary& Reference list in APA format (15 pts)
- 2) Introduction (10 pts)
- Research Aims and Objectives (10 pts)
- 4) Background (15 pts)
- Research Significance and Innovation (15 pts)
- Research Methods (20 pts)
- 7) Conclusion (15 pts)



Assessment Task 3 -Statement of Significance

- It should be founded on a critical review of the literature and provide a straightforward premise
- Use citations and preference original, timely papers over reviews
 - Point out gaps and flaws
 - Do not be afraid to say you disagree with something (but explain why and how you will correct this travesty)
 - Be diplomatic
- Provide graphics (frameworks, models, pathways, etc.)
- · Limit discussion to things you will study
- Show (tempered) enthusiasm
- Know your audience





















