**Task 1 Topics**

1. **Authentication and Access Control**
2. **Malware**
3. **Network Security**
4. **Entropy**
5. **Zero Day Attacks**
6. **Digital Forensics**
7. **AI and ML**
8. **Artificial intelligence in Cybersecurity**
9. **Dark Web and Cybercrime**
10. **Human Factors in Cybersecurity**

**Minutes of the Meeting: Research Paper Flow**

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**1. Understand the Cybersecurity Concept**

**Start by getting familiar with the assigned topic. Break it down—what is it about, why does it matter, and what’s its role in cybersecurity?**

**Look up some research articles to get a solid definition—keep it short but clear.**

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**2. Summarize the Concept from Reliable Sources**

**Dig deeper using trusted sources like:**

**Google Scholar**

**MAHE Library Portal**

**arXiv**

**Sci-Hub (if you’re hitting paywalls).**

**Highlight the basics:**

**How it started (a bit of history).**

**What’s happening now (current trends).**

**Keep it simple and focused.**

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**3. Spot the Problem**

**Zero in on a specific issue related to the concept. For instance:**

**Struggles with secure data transmission in cryptography.**

**Ransomware wreaking havoc on networks.**

**Explain why this problem is a big deal right now. Back it up with stats, news, or real-world examples.**

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**4. Why Does It Matter?**

**Talk about the bigger picture.**

**How does the problem hit businesses, individuals, or even governments?**

**Why should anyone care about fixing it?**

**Make it clear why this isn’t just another academic exercise.**

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**5. Look for Solutions**

**Scout for answers in research papers and industry practices.**

**What’s been tried so far?**

**Are these solutions practical, or do they come with strings attached?**

**Name-drop tools, frameworks, or techniques that address the issue.**

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**6. Show It in Action**

**Pick a real-world example to make it all click.**

**For instance: How encryption keeps sensitive data safe.**

**Link it back to what you’ve learned—projects, past experiences, or case studies.**

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**7. Make It Personal**

**Bring the problem closer to home.**

**Have you seen this issue pop up in your studies or work?**

**What difference would solving it make in your life or career?**

**This gives your paper a relatable, human touch.**

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**8. Write It Your Way**

**Stick to the format provided but make it yours.**

**Don’t just copy-paste stuff; summarize it in your words to keep it original.**

**Also a minimum of 3 papers have to be refferd.**

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**9. Cite Like a Pro**

**Follow the required citation style (APA, IEEE, etc.).**

**Stick to credible sources like:**

**Google Scholar**

**MAHE Library Portal**

**arXiv**

**Sci-Hub (if needed).**

**Double-check that your references are accurate and complete.**

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**This approach ensures your paper is solid, well-researched, and personal. It’s all about showing your understanding while ticking all the required boxes.**

**Research Paper Summary Format**

**1. Paper Details**

* **Title**:
* **Authors**:
* **Publication**:
* **Year**:
* **DOI/Link**: (if available)

**2. Introduction (1 paragraph at least)**

* Briefly introduce the research area or problem addressed.
* Explain why this topic is relevant or important in cybersecurity.

**3. Core Contribution (1 paragraph at least)**

* What is the primary innovation, idea, or solution proposed in the paper?

**4. Key Insights (3–4 bullet points at least)**

* Highlight the major findings or takeaways.
* Include significant statistics, results, or innovations.

**5. Relevance to Cybersecurity (2 paragraphs at least)**

* Explain how this research directly applies to cybersecurity concepts, tools, or challenges.
* Provide examples of scenarios where this research could be implemented (e.g., network security, malware detection, ethical hacking).

**6. Application and Impact (2 paragraphs at least)**

* Discuss the potential impact of this research on cybersecurity practices or the industry.
* Identify any limitations or challenges in applying the research in real-world scenarios.

**7. Evaluation and Critique (2 paragraphs at least)**

* Reflect on what you found most valuable in the paper.
* Critique any aspects you found unclear, incomplete, or debatable.

**8. Summary in Your Words (1 paragraph at least)**

* Provide a concise summary of the paper’s contributions, written in your own words.

**9. Conclusion (1 paragraph at least)**

* Reflect on how this paper deepened your understanding of cybersecurity.
* Suggest any ideas or future research directions inspired by the paper.

**10. References**

* Include a proper citation in IEEE format.

**Instructions for Submission**

1. **Length**: Minimum 2 pages per paper
2. **Format**:
   * **Font**: Times New Roman, 12pt.
   * **Spacing**: 1.5 line spacing.
   * **Margins**: 1-inch all around.
   * **Alignment:** Justified
3. **File Type**: Submit as a PDF.