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**DEPARTMENT OF COMPUTING AND INFORMATICS**

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| **COURSE TITLE:** | **IT SEMINAR PAPER/** |
| **COURSE CODE:** | **BICT 414/COMP 414** |
| **CREDIT FACTORS:** | **2.0** |
| **PREREQUISITE:** | **BICT 322/ COMP 323** |
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**Purpose**

To enable the students to come up with original, significant, and persuasive seminar papers on topical issues in computer science which are presented in the correct format.

**Objectives**

On completion of this module the students will be able to:

1. Develop a literature review based on close and critical readings of scholarly texts such as seminar papers, journal papers, and research papers.
2. Evaluate, credit, and synthesize sources.
3. Distinguish opinions and beliefs from researched claims and evidence.
4. Critically discuss the findings from the literature review
5. Provide conclusions or a summary of the paper.
6. Take a piece of writing through the process of revision in order to advance their ideas and communicate more effectively with their readers
7. Construct a paper consistent with expectations of the discipline, including an appropriate organization, style, voice, and tone.
8. Apply style guides, specifically APA in citation and referencing format.

**Course Content**

Research on a topical issue in computer science. Students present a written report as well as a seminar paper on the selected topic at the end of the semester. Topics to be covered: Computer applications in various non-computer fields e.g., Bioinformatics, Medicine, Forensics, Education, Engineering etc. Student will select a seminar topic then develop a paper outline followed by an introduction, literature review, discussion, conclusion/summary and a list of references.

**Teaching Methodologies**

Lectures, directed reading

**Instructional Materials/Equipment**

Computers, appropriate software, manuals/handouts, whiteboard, library and internet.

**Text Book**

Turabian, K.T. (2019). A Manual for Writers of Research Papers, Theses, and Dissertations, Ninth Edition: Chicago Style for Students and Researchers (Chicago Guides to Writing, Editing, and Publishing) Ninth Edition. University of Chicago Press. ISBN-13 ‏ : ‎ 978-0226430577

**Reference Books**

American Psychological Association (). Publication Manual (OFFICIAL) 7th Edition. ISBN-13 ‏: ‎978-1433832161

**Journals**

1. Journal of ICT Research and Applications: <https://journals.itb.ac.id/index.php/jictra>
2. Information & Communications Technology Express: <https://www.sciencedirect.com/journal/ict-express>

**E-materials**

1. APA Guide: <https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_style_introduction.html>
2. Citation Machine: <https://www.citationmachine.net/>
3. **Principles of Scientific Communication:** [**https://ecampusontario.pressbooks.pub/scientificcommunication/front-matter/introduction/**](https://ecampusontario.pressbooks.pub/scientificcommunication/front-matter/introduction/)

**Course assessment**

***Type of Assessment******Weighting***

Paper 30%

**Total** **100%**

**Structural Guideline**

The structure of a seminar paper can vary depending on the specific requirements of your seminar, academic institution, or field of study. However, a typical seminar paper generally follows a structured format that includes the following sections:

1. **Title Page:**

Title of the Seminar Paper

Your Name

Your Affiliation (University or Institution)

Date

1. **Abstract:**

A brief summary of the paper's main objectives, methods, findings, and conclusions. It should provide an overview of the paper's content in a concise manner (usually 150-250 words).

1. **Table of Contents:**

A list of the main sections and subsections in the paper, along with their page numbers.

List of Figures and Tables (if applicable):

A list of all figures and tables used in the paper, along with their respective page numbers.

1. **Introduction:**

An introduction to the topic of the seminar paper, including the research question, objectives, and the significance of the study.

A brief overview of the structure of the paper.

1. **Literature Review:**

A comprehensive review of relevant literature and research related to the seminar topic.

Discussion of existing theories, models, and studies that inform your research.

Identification of gaps or areas where your research contributes.

1. **Methodology:**

Explanation of the research methods and techniques used in your study.

Description of data collection and analysis procedures.

Justification for the chosen methodology.

1. **Results:**

Presentation of the research findings, often using tables, figures, or graphs to illustrate key points.

Interpretation of the results in the context of the research question.

1. **Discussion:**

Analysis and interpretation of the results in more depth.

Discussion of the implications of the findings and how they relate to the existing literature.

Exploration of limitations and potential areas for future research.

1. **Conclusion:**

Summarization of the key findings and their implications.

Restatement of the research question and objectives.

Final thoughts on the significance of the research.

1. **References:**

A list of all the sources and references cited in the paper, following a specific citation style (e.g., APA, MLA, Chicago).

1. **Appendices (if applicable):**

Supplementary materials, such as questionnaires, surveys, or additional data, are relevant to the study but not included in the main body of the paper.

Please note that the specific requirements and formatting may vary based on your institution's guidelines or the preferences of your seminar instructor. Always refer to your seminar's guidelines or consult with your instructor for any specific instructions.