**Instrutions:**

* Keep a page limit of **6-10 pages** with **10pt** font size for body text and **double column**.
* Use report writing style ( not in point form)
* Do not use a writing style as a personal assignment submission
* Use section, sub section numbers according to the template. (Do not include sub sections in the Introduction and Conclusion)
* Do not change font colour/ font size/ line spacing/ indentation/ etc. (any format settings)
* Proofread for spelling and grammar
* Do not copy and paste from articles available online (plagiarism)
* You could include (reuse) the text you have used for the final report with improvements when you write the paper. Based on the space limitation (page limit of the paper, 6 – 10 pages) you may summarise the text that you have used for the report.
* Use figure numbers and figure captions.
* Use diagrams/ images/ screen shots of interfaces with high resolution to get a clear figure
* When you use a tool to draw diagrams, change the font settings of the diagram; It is better to have font in black colour and if possible do not fill the object in the diagram. Also, try to re-locate the objects in a compressed manner (you may drag elements/objects close to each other). This will be useful to get a clear image; in order to make the diagram small in size without reducing the resolution quality.
* When you include images in your reports, make them “in line with text” ( picture tool bar 🡪 wrap text 🡪 in line with text) and include the caption accordingly. If you include two or more images together ( in a row), group them.
* Use the figure captions in the form of Fig. 1. <<caption>> and when explain it in the text, use the abbreviation “Fig. 1,” even at the beginning of a sentence.
* When you include pseudocode for one of the major algorithms in your system, include it in a text box, font type = Courier New, font size = 8 and it should include a figure caption with the corresponding figure number.
* For references use IEEE (number format) reference style
* Each reference MUST BE cited within the text (specially in the introduction and literature survey sections)
* When you cite references, include the full stop/ period after the citation, at the end. ( eg. ………. [1]. ); not before the square bracket.
* Cite the references within the text in an increasing numbering order (i.e. do not cite in a way : [1] , [6], [2], [5],…)
* Remove hyperlinks (blue colour – underline) from the web addresses/ URLs include in the references.

**Sections to be included in the paper**

Title

Author name

**Abstract**

*The abstract is a short one paragraph summary of the report including:* ***goals, major aspects, results, and conclusions****.*

*For example, you can briefly state things in the following order:*

*problem you considered (purpose),*

*design and methods indicating the key techniques used,*

*major output (a tool for…),*

*implications of the output.*

1. **Introduction**

background, motivation, importance, purpose, paper structure (eg. Section 2 describes….. section 3 explains…..)

1. **Literature Review**

*Discuss the relevant primary literature/ related systems with citations*

1. **System Models**
   1. System Requirement

* *Describe the functional and non-functional requirements of the system [one or two paragraphs in report format]*
* *Include the main usecase diagram of the system and explain it*
  1. System Design
* *Describe are main architecture used for the system*
* *the class diagram of the system (logical view) and describe the classes and associations*
* *Include the* ***main*** *sequence or activity diagram (process view) and describe it*
* Database Design

1. **System Implementation** 
   1. Implementation Procedure

*Describe the used technologies, tools, resources and applied strategies/ methodologies and used materials(data) to develop the system.*

*Include and explain the most important algorithm/* ***pseudocode*** *of the source code*

*Do not include the source code itself*

4.2 Main Interfaces

*Include and describe* ***main*** *interfaces of the system*

1. **System Testing and Analysis**

Summarise the testing and analysis details of your system

No need to include test cases

1. **Conclusion and Future Work**

* *conclusions should relate directly to the ideas presented in your introduction*
* *generalise/ explain the significances of system outcome and make your points that support and refer back to the discussed problem in the introduction.*
* *describe interesting observations, new questions, and future work.*
* *First paragraph can be start by stating what the system is/ what the paper is presented and its benefits. Explain the future extensions in the second paragraph.*

**Reference**

* *List of research papers, articles, websites that cited within the report*
* *Use IEEE referencing style*

**Format improvements**

Make sure the paper format is complied with IEEE research paper format given in the end of Moodle CS3202 page. You may already have taken that template; however check for the following:

DO NOT include sections within the “introduction”; keep it as three to four paragraphs.

Font type : Times New Roman

Paper margin : top = 1.9 cm, bottom = 4.29 cm, left = 1.29 cm, right = 1.29 cm

Maximum number of pages : 6 ( if the number of pages exceed, try to resize images, reduce unnecessary text)

Check for the indentation of fist line of each paragraph

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | In paragraph menu 🡪 spacing | | |
|  | Font size | Before | After | Line spacing |
| Title | 24 | 0 | 6 | single |
| Line space between title and author’s name | 10 | 0 | 0 | single |
| Authors Name | 11 | 18 | 2 | single |
| Affiliation | 10 | 0 | 0 | single |
| Line space between affiliation and paper body | 10 | 0 | 0 | single |
| Here in after 2 columns | Width = 8.89 cm | | Spacing 0.63 cm | |
| Abstract keyword – bold & italic | 9 | 0 | 10 | single |
| Abstract text - bold | 9 | 0 | 10 | single |
| Keywords – bold and italic/ separated by ; | 9 | 0 | 6 | single |
| Section heading (numbering I, II, III, …) | 10 - capital | 8 | 4 | single |
| Text under section | 10 | 0 | 6 | Multiple 0.95 |
| Sub section heading (A, B, C,…) - Italic | 10 | 6 | 3 | single |
| Text under sub-section | 10 | 0 | 6 | Multiple 0.95 |
| Sub- sub section heading ( 1), 2), 3) …) – italic | 10 | 0 | 0 | Exactly 12 |
| Figures | Wrap text 🡪 In line with text , If two or more images together ( in a row), group them. | | | |
| Fig. 1. Caption (below the image – left align) | 8 | 4 | 10 | single |
| TABLE I. NAME - capital (above the image) | 8 | 12 | 6 | Multiple 0.9 |
| REFERENCES - no numbering | 10 | 8 | 4 | single |
| List of references [1], [2],… | 8 | 0 | 2.5 | Exactly 9 |