

## Learning Journal 1

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**Course:** SOEN 6841

**Journal URL:** <https://github.com/pratim-mandal/SOEN6841>

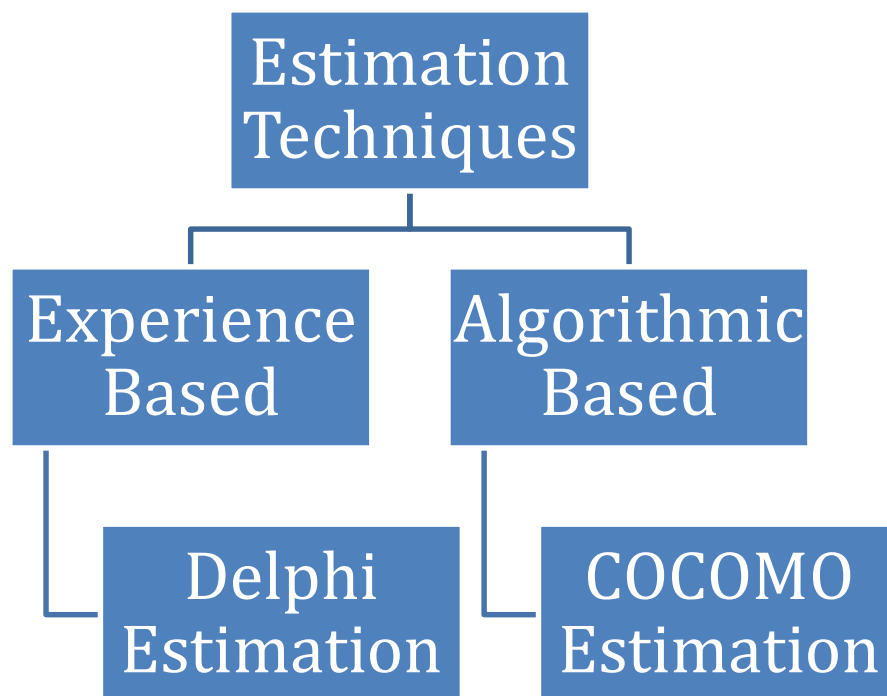
**Dates Range of activities:** 30<sup>th</sup> January 2025

**Date of the journal:** 6<sup>th</sup> February 2025

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### Key Concepts Learned:

- After previously learning the basics of Project Management, I delved deeper into the intricacies of it.
- Going into chapter 3, I was re-introduced to “Coast and Effort” estimate techniques. I said re-introduced because, I read about it vaguely during my undergraduate course.
- These techniques can be divided into two ways based on how and why they are performed the way they are.



- COCOMO basically works by getting an initial estimate of line of code from similar project and determining a set of multiplying factors of the project.
- Additionally there are 3 types projects COCOMO categorizes:
  - Organic
  - Semidetached
  - Embedded
- Going into Delphi method, it is done by leveraging individual expertise. To make decisions a group of experts are consulted and give their opinions based on a qualitative criteria.

- We also learnt about function point analysis, but this was something we were taught in detail again during my undergraduate courses.
- Going further we discussed Risk Analysis; what kind of risks are associated with a software project and how to deal with them
- This was a concept which I wouldn't say I was unfamiliar with but I had very little idea about.
- I learnt how to categorize risks into : technical, legal, safety, economic just to name a few.
- Learnt which types of risks I need to prioritize when I work on project and which I can deal with later or work with a third party, which can deal with it on my behalf.

#### **Applications in Real Projects:**

- Well if I talk about applying this concepts in real projects, I can pursue my group to do a cost/effort analysis before starting a project.
- I now also possess the knowledge on how to do a risk analysis, I can apply my knowledge and identify the risks associated with the project that I will be working on with my group and identify ways to mitigate them.

#### **Peer Interactions:**

- Although I had some idea about Delphi estimation techniques, I had a very little understanding of COCOMO method, and during the class all the interactions my fellow classmates and me had with the professor helped with get a good idea about it.

#### **Challenges Faced:**

- The challenge I faced was understanding COCOMO at its depth, because COCOMO estimation model itself is vast topic area.

#### **Personal Development Activities:**

- I would like to learn more about COCOMO from online resources and ask my friends in the industry how they apply these estimation techniques and risk analysis methods on the projects they work on. I think they can help me lot because some of them are in a startup and deal with the raw experience of it.

#### **Goals for the Next Week:**

- Well I would be sure to read next week's chapter material before going into class so that I have a basic understanding of what will be discussed in the class and I can bring up any doubts I might have during the class itself.
- Also I need to work on the project pitches that we will be presenting this week.