

## Final Journal

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**Course:** Software Project Management

**Journal URL:** [https://github.com/SahebChandok/SOEN-6841\\_LearningJournal](https://github.com/SahebChandok/SOEN-6841_LearningJournal)

**Dates Range of activities:** 13 March 2025 – 30 March 2025

**Date of the journal:** 29 March 2025

### Overall Course Impact:

This course has profoundly transformed my understanding of Software Project Management (SPM) by bridging theoretical concepts with practical applications. Initially, my perception of project management was limited to scheduling and task delegation. However, through this course, I gained a holistic view of SPM, encompassing initiation, planning, execution, monitoring, and closure, along with risk and configuration management.

Key concepts that I learned include:

- The importance of a well-defined project charter, scope, and SMART objectives in setting a clear direction.
- The role of effort and cost estimation techniques (e.g., COCOMO, Function Point Analysis) in realistic project planning.
- The criticality of risk management—identifying, analyzing, and mitigating risks to avoid project derailment.
- The value of configuration management in maintaining software integrity across versions.
- The differences between waterfall and iterative models, and how Agile methodologies (e.g., Scrum) enhance adaptability.

A challenging yet transformative realization was how traditional project management principles (e.g., Waterfall) contrast with Agile approaches. Initially, I believed rigid planning was essential, but learning about iterative models demonstrated how flexibility and continuous feedback lead to better outcomes in dynamic environments.

### Application in Professional Life:

The knowledge from this course is directly applicable to my professional career, particularly in software development and team leadership roles.

1. **Project Planning & Estimation:** In future projects, I will use WBS (Work Breakdown Structure) and Earned Value Management (EVM) to track progress and budget adherence. Techniques like Delphi estimation will help in collaborative effort forecasting.

2. **Risk Management:** I now recognize the need for proactive risk assessment (e.g., technical, scheduling, and resource risks) and mitigation strategies (e.g., contingency buffers).
3. **Agile & Iterative Development:** For fast-paced projects, I will advocate for Scrum or Kanban to improve adaptability and stakeholder feedback integration.
4. **Configuration & Quality Assurance:** Implementing version control (Git/Jira) and quality gates will ensure software reliability.

Long-term professional opportunities include:

- Transitioning into project management roles (e.g., Scrum Master, Product Owner).
- Leading cross-functional teams with structured methodologies.
- Enhancing client communication through clear requirement documentation and change management.

### **Peer Collaboration Insights:**

Collaboration with peers was instrumental in deepening my understanding. Key takeaways:

- Group discussions on case studies (e.g., risk scenarios) provided diverse perspectives on problem-solving.
- Team projects (e.g., developing a software proposal) improved my ability to delegate tasks, resolve conflicts, and integrate feedback.
- Peer reviews of learning journals helped refine my critical thinking and self-assessment skills.

A notable experience was debating the merits of Waterfall vs. Agile—this exchange highlighted how different industries (e.g., healthcare vs. startups) require tailored approaches.

### **Personal Growth:**

This course fostered significant **personal and academic growth:**

1. **Critical Thinking:** Analyzing real-world project failures (e.g., due to poor risk management) sharpened my problem-solving skills.
2. **Communication & Leadership:** Presenting topic analyses improved my ability to articulate complex ideas clearly.
3. **Adaptability:** Learning multiple estimation techniques (e.g., FPA vs. COCOMO) enhanced my flexibility in choosing the right tool for a given scenario.
4. **Self-Reflection:** Maintaining a **learning journal** helped me track progress and identify areas for improvement (e.g., time management in project scheduling).

Areas for further development:

- **Advanced Agile practices** (e.g., SAFe, Lean).
- **Negotiation skills** for stakeholder management.