

## Final Reflection on the Course Learning Outcomes

Week (Mar 10 - April 14)

Journal URL: [https://github.com/Vaishakhi2000/SOEN6841\\_journals](https://github.com/Vaishakhi2000/SOEN6841_journals)

### Overall Course Reflection:

- **Enhanced Problem-Solving Skills:** The course has sharpened my problem-solving abilities through case studies and group projects, empowering me to successfully take on challenging project management tasks.
- **Enhanced Self-assurance:** The training has given me a thorough grasp of project management principles, which has enhanced my self-assurance in managing and completing software projects.
- **Comprehensive Knowledge:** The course has given me comprehensive knowledge of software project management, encompassing essential ideas from the outset to the end, promoting a comprehensive comprehension of project dynamics.
- **Strategic Thinking:** Acquiring knowledge about risk management and project planning methodologies has enhanced my capacity for strategic thinking, enabling me to foresee possible roadblocks and proactively construct solutions.
- **Practical Application:** To ensure relevance in real-world project scenarios, the course has placed a strong emphasis on the practical application of project management principles.
- **Continuous Improvement:** Adaptability and creativity in project execution are encouraged by the continuous improvement attitude that has been ingrained through an understanding of iterative software lifecycle models.
- **Cost Optimisation:** By monitoring performance against budget and schedule and guaranteeing effective resource allocation, concepts such as Earned Value Management (EVM) have allowed me to optimise project expenses.
- **Stakeholder Management:** Having a better understanding of how projects start and how communications are planned has improved my capacity to control expectations from stakeholders and have open lines of communication throughout the project's duration.
- **Quality Assurance:** Delivering high-quality software products and reducing risks associated with mistakes and defects has been made easier with an understanding of software testing management approaches.
- **Agile Methodologies Mastery:** Studying agile approaches such as SCRUM and eXtreme Programming has given me the abilities and understanding to apply agile methods successfully, promoting collaboration and adaptability in project teams.
- **Resource Allocation:** I've been able to optimise project outcomes by managing project timelines and allocating resources in an efficient manner thanks to techniques like Work Breakdown Structure (WBS) and Critical Path Method (CPM).
- **Risk Mitigation:** Acquiring knowledge of risk management techniques has given me the ability to recognise, evaluate, and reduce risks associated with software projects, guaranteeing project success even in unpredictable circumstances.

To sum up, this training has greatly increased my understanding of and proficiency with software project management. I now have the tools and techniques I need to lead projects

successfully from start to finish. Having gained a better comprehension of project dynamics and improved problem-solving skills, I am confident that I am equipped to take on obstacles and succeed in my career.

### **Peer Collaboration Insights:**

- Interacting with classmates broadened my perspective and enhanced our conversations by exposing me to a variety of project management methodologies and points of view. Actively participating in peer reviews and critiques offered valuable insights into my work, allowing me to learn from different viewpoints and improve my skills.
- I learned about industry practices and emerging trends through discussions and group activities led by classmates that went beyond the course material. Through iterative feedback loops, I was able to refine my critical thinking abilities and, with the help of peers' varied perspectives, approach complicated problems with clarity and creativity.
- Collaborative projects, like the Augmented Reality Museum Guide, highlighted the significance of good communication and teamwork in accomplishing project goals.
- Working together on projects promoted a feeling of camaraderie among students, fostering a supportive learning environment that was beneficial to both professional and personal development. By working well together, we were able to take use of one another's advantages and overcome obstacles to produce projects that were above and beyond expectations. Acknowledging different viewpoints and having fruitful conversations gave me the interpersonal skills I needed to succeed in the workplace.
- Discovering how to collaborate with others to achieve common goals has equipped me to work well in fast-paced team settings and produce significant results in my future pursuits.

### **Personal Growth:**

- Taking on difficult ideas and putting them to use in real-world project situations has given me a lot more confidence to take on project management responsibilities. I've improved my comprehension of project dynamics and my capacity to manage them via practical experience.
- A greater understanding of the complex procedures involved in software development has been fostered by this course. I've improved my problem-solving skills by learning more about subjects like effort estimating, risk management, and project planning. These topics have also given me insight into the difficulties that come with managing software projects.
- I've learned through both academic study and hands-on experience how important efficient project management is to the overall success of a project. Having realised the value of thorough planning, proactive risk management, and effective communication, I am more qualified to oversee and manage software projects.
- My ability to work with others has improved through class discussions and joint projects. I have gained an understanding of the benefits of cooperation and the significance of utilising collective abilities by actively engaging in team projects and encouraging open communication.

- I now have a growth mentality thanks to this training, which motivates me to take on new tasks and see failures as chances to grow. I am in a better position to adjust to changing project requirements and industry trends since I have adopted a continual learning strategy.
- As the course has gone on, I've recognised the areas in which my leadership skills still need improvement. Through improving my decision-making abilities, developing a collaborative culture, and honing my capacity to inspire and motivate others, I am becoming a more valuable team member and leader in the software development field.

### **Application in Professional Life:**

The information I've learned in this course has broad application in a number of areas related to our career, including:

- **Effort Estimation Techniques:** As a software engineer, we may use methods like FPA to precisely estimate the amount of work and resources needed for a project. This helps me to assign resources wisely and set reasonable project deadlines, which increases project success rates.
- **Strategies for Risk Management:** It is possible for us to proactively identify and minimise potential risks in software projects since I understand risk management approaches. I can assure project resilience in the face of adversity and reduce the impact of uncertainties by creating thorough risk management plans.
- **Configuration Management Practices:** Using these procedures guarantees the consistency and integrity of software assets over the course of the project. Version control and change management procedures can be put in place to reduce the possibility of mistakes and inconsistencies, protecting project deliverables and improving project quality as a whole.
- **Project Planning Techniques:** Project management can be structured with the use of project planning techniques like Work Breakdown Structure (WBS) and Critical Path Method (CPM). I can promote project success and provide value to stakeholders by developing thorough project plans that minimise project delays and maximise resource utilisation.

My capacity to be flexible and adaptable has helped me to succeed in dynamic project contexts thanks to the knowledge I've learned from this course. Knowing agile approaches and iterative software lifecycle models has improved my ability to adapt to shifting project needs and market expectations, ensuring project success even under uncertain circumstances.