

Application of Project Management Principles for Student Support Enhancement

Presenter:

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20th September 2023



Purpose of this Presentation

- ➤ Benefits of Applying Project Management Principles and Instilling a Project Management Mindset into Your Work in an Educational Setting
- How Project Management Principles Can Help Your Future Prospects
- ➤ Why and How You Should Incorporate Project Management into Your Educational Journey
- ➤ How You Can Make a Project Management Mindset a Part of Your Day-to-Day Activity

How can project management be used in education?



- ➤ Project management can be a valuable tool for students.
- It is the practice of planning, organizing, and executing tasks effectively and efficiently.
- ➤ Using certain knowledge, skills, tools, and techniques can enable you to achieve specific project goals and objectives: within a defined scope and timeline.

Some Fundamental Terms



> Project

A project is a temporary endeavor undertaken to create a unique product, service, or result (PMI, 2017).

Project Management

Project management is the application of knowledge, skills, tools, and techniques to project activities to meet project requirements (PMI, 2017).

> Activity

• An activity is an element of work normally found on the WBS that has an expected duration, cost, and resource requirements (PMI, 2017)

Project Management Methodology



- Simply put, A methodology is a description of how things should be done.
- ➤ It is a defined combination of logically related practices, methods, and processes that determine how best to carry out your plan.
- ➤ It is a set of guiding principles and processes that guide you in organizing, managing, and executing your projects to achieve optimum results.
- For a research project, the methodology you choose determines how work is prioritized and completed.
- Exercise for discussion: How does project management methodology apply to your work?

The Principles of Project Management

The principles of project management are the fundamental rules that should be followed for the successful management of projects.

In order words, project management principles are the rules, concepts, and techniques you apply to your projects to achieve a successful outcome.

Exercise for discussion: How do project management principles apply to your student work?

Application of Project Management Concepts

- In research, a concept or construct is a generalized idea about a class of objects that has been given a name, an abstraction of reality that is the basis of theory development.
- ➤ Every discipline and theory is made up of concepts, e.g. key ideas, keywords, and key phrases (Christina Quinlan, 2011).
- Exercise for discussion: How do project management concepts apply to student work?

Application of project management tools and techniques to research projects

- ➤ Project management tools are the means used to assist in getting things done. A tool is a device or mechanism that helps you do things (e.g. Gantt Chart, Network Diagram).
- ➤ Project Management techniques are the way the tools are used in getting things done. For example, the EVM technique is a PM performance measurement technique that integrates scope, time, and cost data.
- Exercise for discussion: How do project management tools and techniques apply to student work?

Application of Project Management Tools/Techniques

- **≻**Planning
- The planning process is a process used to develop objectives, develop tasks to meet objectives, determine needed resources, create a timeline, determine tracking and assessment, and finalize the plan.
- ➤ Planning involves making choices about how to use the resources you have and the actions you will take to achieve the choices made.
- ➤ Project planning tools include charts and graphs designed to track progress and other actions that allow researchers to manage and improve performance.
- Exercise for discussion: Based on the above, what tools could students use in their work planning process?

The Research Project Lifecycle vs The Project Lifecycle

Project life cycle

The project life cycle is a collection of phases such as concepts, development, implementation, and closeout.

The research project life cycle

The research project life cycle is a collection of the different chapters/main sections that make up the research paper.

> Exercise for discussion

➤ How could students apply the project life cycle in their work?

The Research Framework

> Research Framework

- A research framework provides an underlying structure or model to support your collective research efforts (theoretical and conceptual frameworks).
- Research framework is more than an amalgamation of a set of activities.
- ➤In a theoretical framework, you explain the existing theories that support your research, showing that your paper or dissertation topic is relevant and grounded in established ideas.
- Conceptual framework, on the other hand, is designed to assist in theory building and the visual understanding of the exploratory findings.
- ➤ While a theoretical framework describes the theoretical underpinnings of your work based on existing research, a conceptual framework allows you to draw your own conclusions, mapping out the variables you may use in your study and the interplay between them.

Gantt Chart and Critical Path Analysis

>Gantt Chart

- Gantt Chart is one of the tools that can help you map the project lifecycle and in turn, helps you control project execution.
- A Gantt Chart is a tool used for displaying project schedule information by listing project activities and their corresponding start and finish dates in calendar form.
- It is a versatile tool that can be used with any project.

Critical Path Analysis

- Critical path analysis (CPA) is a project network diagramming technique used to predict total project duration (Schwalbe, 2014).
- The critical path analysis is a way of identifying and scheduling all of the critical tasks that comprise your project, as well as their dependencies.

How does a project management mindset benefit students?

- Project management can help learners develop important skills. It gives insights and experience in planning, organizing, and executing projects.
- Setting goals and objectives
 - ➤ Using project management techniques will help students **define clear goals and objectives for their projects**. They will need to identify the desired outcome before they begin and set targets that are measurable rather than unquantifiable.
 - > They will need a plan for how they intend to achieve their targets instead of just starting somewhere and hoping for the best.

>Breaking down tasks

➤ Project management can help students break down complex tasks into smaller, more manageable pieces.

Tracking Progress

- >How to track progress in your research
 - Create deliverables and milestones.
 - Set realistic, clear, and measurable goals.
 - Use project tracking software to keep track of time and tasks.
 - Meet regularly with your supervisor or check off achievements (items).
 - Have clear deadlines.
- ➤ Project tracking is the process of monitoring a project's progress against the original project plan.
- The goal is to take corrective actions as soon as you spot deviations (or occurrences that may lead to deviations) so you stay on track

How can you make a project management mindset part of your day-to-day training and education?

- ➤ There are two ways to approach making a project management mindset part of your experience.
- ➤ You can incorporate it into the way you learn and work, and you can use the methods and methodologies of project management itself in relation to what you are learning.
- ➤ You can see how these can help you in your everyday lives and future world of work as well as during your studies using educational exercises.
- ➤ By incorporating project management techniques into your educational materials, you can identify and use the core principles that are relevant to your field and include topics that relate to these.
- ➤ By using case studies and real-world examples you can help to make concepts **more relatable and engaging**. For example, you could use examples from a certain subject to demonstrate how project management principles are applied in practice.
- ➤ This can help you to better understand the relevance and importance of project management in reality and not just in an abstract way.



Q & A

Thank You!