

## **Experiment 7: Use project management tool to prepare schedule for the project.**

**Learning Objective:** Students will be able to List the various activities in the project, analyze the various activities for schedule, estimate the time for each activity and develop a Gantt Chart for the activities.

**Tools:**kanban tool

**Theory:** Kanban is a tool used in project management that is based on the principles of the Toyota Production System. It is designed to help teams improve their workflow by visualizing their work and limiting the amount of work in progress at any given time. Kanban boards typically consist of columns representing the different stages of a project, with cards or sticky notes representing individual tasks or items. The team moves the cards from column to column as work progresses, giving them a clear view of the project's status at all times.

Kanban can be used to manage a wide variety of projects, from software development to manufacturing to marketing campaigns. Some of the benefits of using Kanban include:

- Improved visibility: Kanban provides a clear, visual representation of the work that needs to be done and its current status, making it easier for team members to understand what needs to be done and who is responsible for it.
- Better collaboration: Kanban promotes collaboration and communication between team members, as everyone can see what others are working on and where their tasks fit into the overall project.
- Increased productivity: By limiting the amount of work in progress at any given time, Kanban helps teams focus on the tasks that are most important, leading to increased productivity and faster project completion times.

**Learning Outcomes:** Students should have the ability to

LO1: List the various activities in the project.

LO2: Analyze the various activities for schedule.

LO3: Estimate the time for each activity.





LO4: Develop a Chart for the activities.

**Outcomes:** Upon completion of the course students will be able to use project management tool to prepare schedule for the project.

**Conclusion:** Successfully implemented kanban tool and prepared chart for project using smartsheet.

For Faculty Use

Correction Parameters	Formative Assessment [40%]	Timely completion of Practical [40%]	Attendance / Learning Attitude [20%]	
Marks Obtained				

To Do	In Progress	Completed
+	+	+
Add dynamic functionality	Brainstorming for new ideas	<div>  True Simulation         </div>
Add dynamic UI for dynamic functionality		<div>           Arduino full fledged connection         </div>
		<div>           Added Compatibility         </div>
		<div>           Revamped GUI         </div>
		<div>           Conversion from C++ to Python         </div>
		<div>  2/3            Live Testing         </div>
		<div>   1/3            Bug Sweeping           <span>TN</span> </div>