

## 5. Project Planning

Since we're working with a **12-week timeline**, we've adjusted our existing plan to fit within that duration while keeping all tasks and responsibilities aligned logically. Here's the revised **12-week project planning table**:

Table 02 : Project Task Schedule and Team Allocation for Evaporative Cooling System Development

Task number	Task	Week	Team Members
1	Literature review on humidity control methods	1-2	All members
2	Finalize system design (SolidWorks), airflow simulation (ANSYS)	3	Anupama (CAD) Tharusha, Dishan (Simulation)
3	Component scavenging, purchasing, and fabrication begins	4	All members
4	Continue fabrication and begin system assembly	5-6	All members
5	Install solar system, sensors, and core cooling unit	7	All members
6	Implement chosen humidity control method (e.g., desiccant module)	8-9	All members
7	Full system integration and dry-run testing	10	All members
8	Testing in 30 m <sup>3</sup> room, data logging, troubleshooting	11	All members
9	Evaluation (graphing, analysis, report writing, presentation preparing)	12	All members

Gantt Chart of the process

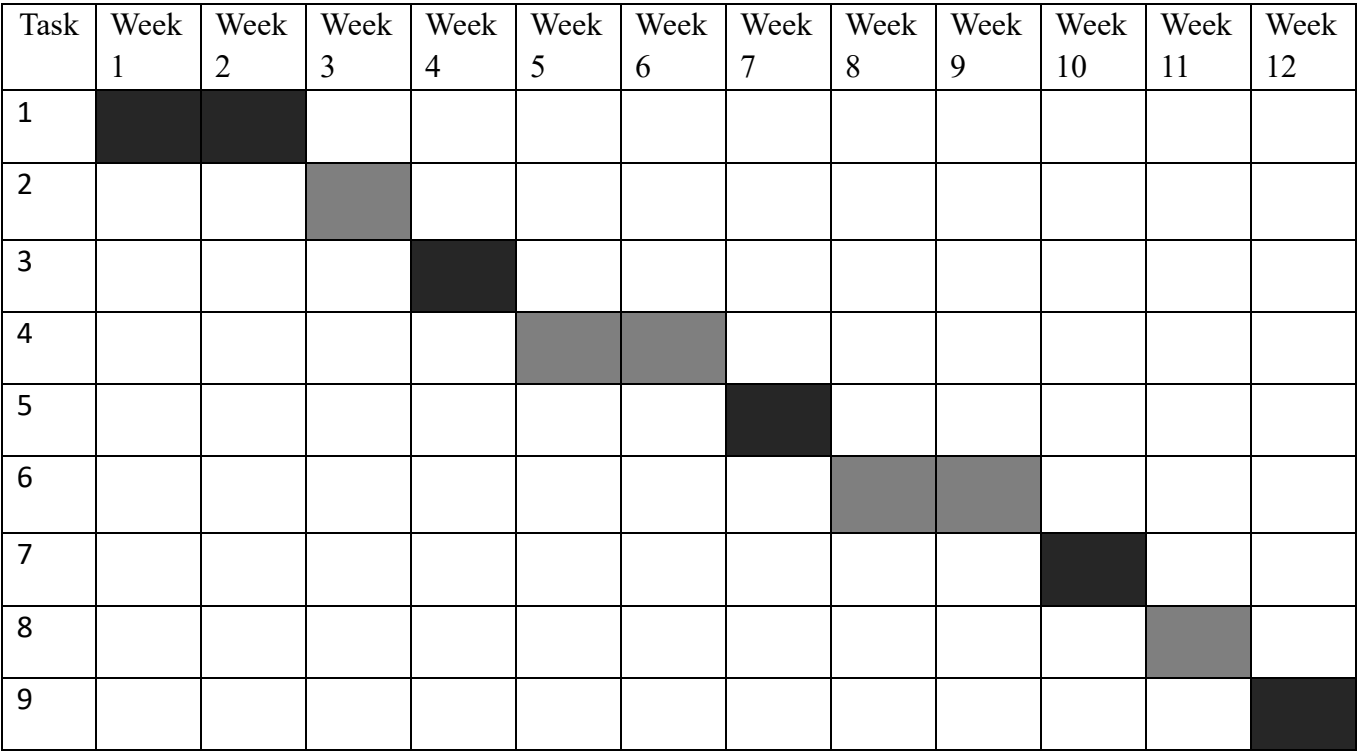


Figure 01: Gantt Chart Representing Project Task Timeline for Evaporative Cooling System Development