



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

Student Name	Saud Ali Haddadi	اسم الطالب
Students I.D	2021200224	الرقم الجامعي

Section

Course

Master

(PMG506)

Date

Code

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Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-20 في تمام الساعة 9 مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الانجليزية.
- يتم تسليم المشروع في صيغة ملف . pdf مع الالتزام نموذج الجامعة ولن تقبل أي مستندات أخرى.
- يجب مراعاة أقسام البحث الرئيسية (مقدمة Introduction، دراسات علمية سابقة Literature Review، طريقة البحث Methodology، النتائج والمناقشة Results and Discussion ، وأخيراً المراجع References . وان كان هناك ملحقات Appendices يتم إضافتها)
- يجب الالتزام بـ Theme موحد كما يلي:
- حجم الخط 12.
- نوع الخط Arial.
- لون الخط أسود.
- المسافة بين الأسطر 1.5 line spacing

RESTORATION of OLD HOUSE

1. Introduction:

Long after construction of the building, there is suddenly an issue happened that threatens to demolish the building due to cracks that exist on facades of some buildings or on the slab of the room to tell us how bad the condition it has reached, and the need to treat and restore it in order to remain firm on its foundations if not handled properly and quickly. The restoration is intended to strengthen the building and restore its durability, and to return the building to its natural state when it was constructed, whether it passes over the duration of the construction one year or even 70 years, all buildings after large periods of time need to be repaired, and there is only one exception in this, which is the cost of restoration is higher than the cost of new construction.

There are several purposes of restoration an old house and in my home project we have two main milestones.

1. Restoration for purpose of treating cracks, corrosion of iron and strengthening the building.
2. Restoration for purpose of renovation and modernization.

As project manager for my house Restructuring, it is a project that when you investigate you will find it easy to make and to reach goals. Since some of project management team facing the uncertainty or do not have a unified business process and find difficulty to deliver their projects on time, within cost or specification and as a result of the lack of project prioritization, that will let the organization to move away from the main milestone and hope that the project will not collapse. In this way, the project becomes a difficult task for the project management team. The best practice to **prevent the deviation of the project** is to use appropriate tools and techniques in the intention phase for determine several project elements to define the project cost, time, resources, tasks and activities. All that variables are important to achieve the project objectives and strategy.

2. Literature Review and Conceptual framework:

Project Scheduling and Cost Control: Planning, Monitoring and Controlling by James Taylor (2019), Tells that **project priorities** are the bridge from the work break down **structure to planning, scheduling, cost and resource**. That bridge is linked to the **estimating tools**. Since the **estimating** is the mother of the **project priorities** the basic proceed is applies to wide variety of the project needed that include **time estimates for scheduling, cost estimates for budgeting** and **equipment estimates for the planning resource**. In the researcher opinion, using for the bottom-up estimating based on WBS that will gives you the most reliable result.

Project Scheduling and Cost Control: Planning, Monitoring and Controlling by James Taylor (2019), As we know all that tools and techniques are related to each other and all this work should be integrated, **tracking** the project starting from the **scheduling**. The objectives from the **scheduling** not only to show when the activity will be performed it is also show how project components are related and how change in one may affect the project life cycle and that can be mange by making good tracking system led to the success of the project deliverables.

"How Small Groups Can Solve Problems", Industrial Engineering, by Hyde, W.D. , tells about the Gan charts it is one of the method showing the information of the project from list to right as horizontal bars and it is the most common scheduling techniques. The researcher opinion about the Gantt chart it is very easy to understand and that was the most advantages of using this tool.

3. Methodology:

Through researching studies that talked about estimating and scheduling how it is affected the project success and how the project manager also will lead you to the same point, some techniques need to be applied.

3.1 Estimation Techniques:

3.1.1 Bottom-up:

It is tool that estimated all the small elements, activity, tasks, cost, etc. in the project then all added together. This tool it is preferred from the research because it is quite precise.

3.1.2 Analogy:

It is tools to make a quick estimation based on the actual result compared to the previous projects. The disadvantages of using the analogy are to find typical project to take the lesson learned the estimation.

3.2 Scheduling Techniques:

3.2.1 Work breakdown structure (WBS):

It is tools to decompose the project to lowest components and it can be done as graphic or tree format. WBS is the basis for the scheduling can be develop with either product oriented or task oriented focused. WBS need to develop in detail to show the task or the work packages.

3.2.2 Sequencing:

It is tools to finding the sequence of the work and to find out the critical path of the project also to find out the slack time that where we can delay some of the activity without affecting the critical path.

3.2.3 Gan charts:

A Gantt map, which is widely used in project management, is one of the most common and useful ways to view activities (tasks or events) against time. A list of the tasks can be found on the left side of the map, and a fitting time scale can be found along the top. Each activity is defined by a bar, whose location and length reflect the activity's start, period, and end dates.

4. Results and Discussion:

Using work Breakdown Structure tools to start preparing the scheduling and the plan for the project, as result, the key tools lead the project manager to deliver the project in time and within budget is WBS because it mostly defines all the project element after it has been estimated. The successful project manager must be understood the needs of his project and how he uses the tools to achieve the strategic goal of the organization.

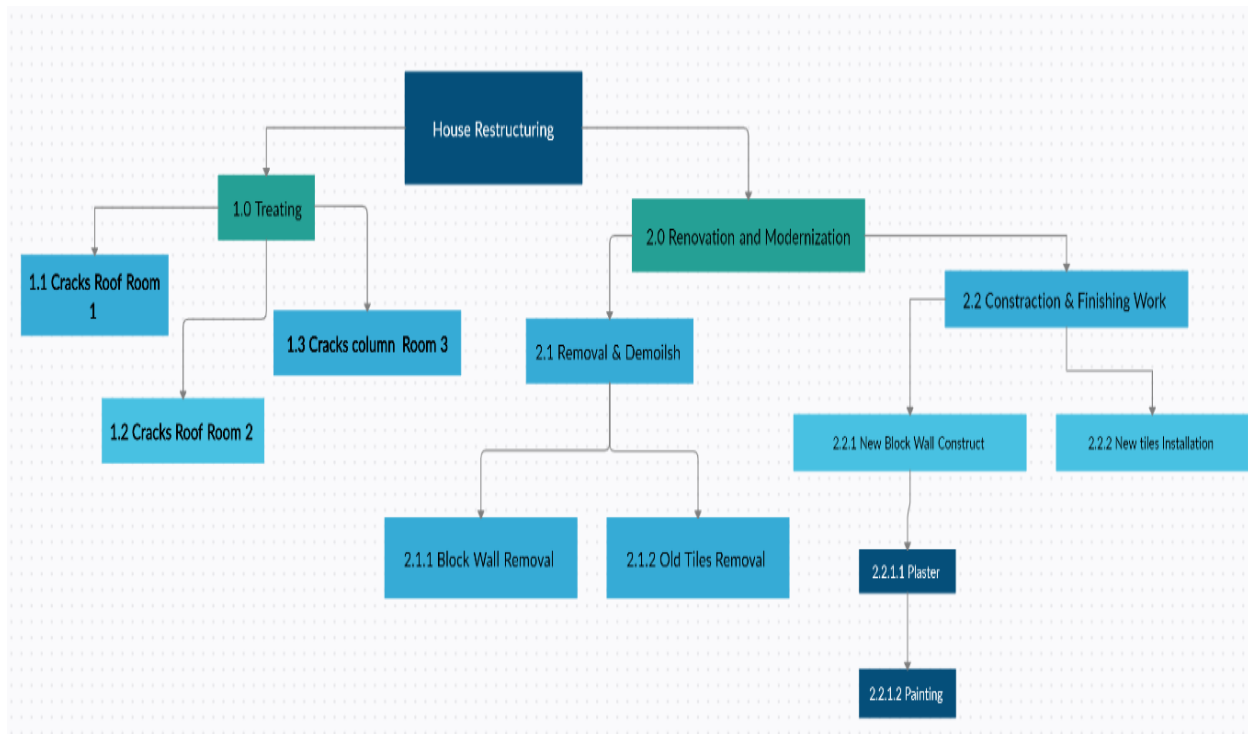


Photo – WBS

As result of the WBS the milestone of the project has been defined and each activity too, the treating have to be finish to start the renovation and modernization. Also, we can now start making the schedule based on the WBS.

Gantt chart for home restructure providing the duration of each task and the project life cycle. As mentioned in the Gantt Chart below we can find out the two milestone and the activity and duration of each task. Since the project will be start at 3-Jan-2021 and already delivered on the time 22-Feb-2021.

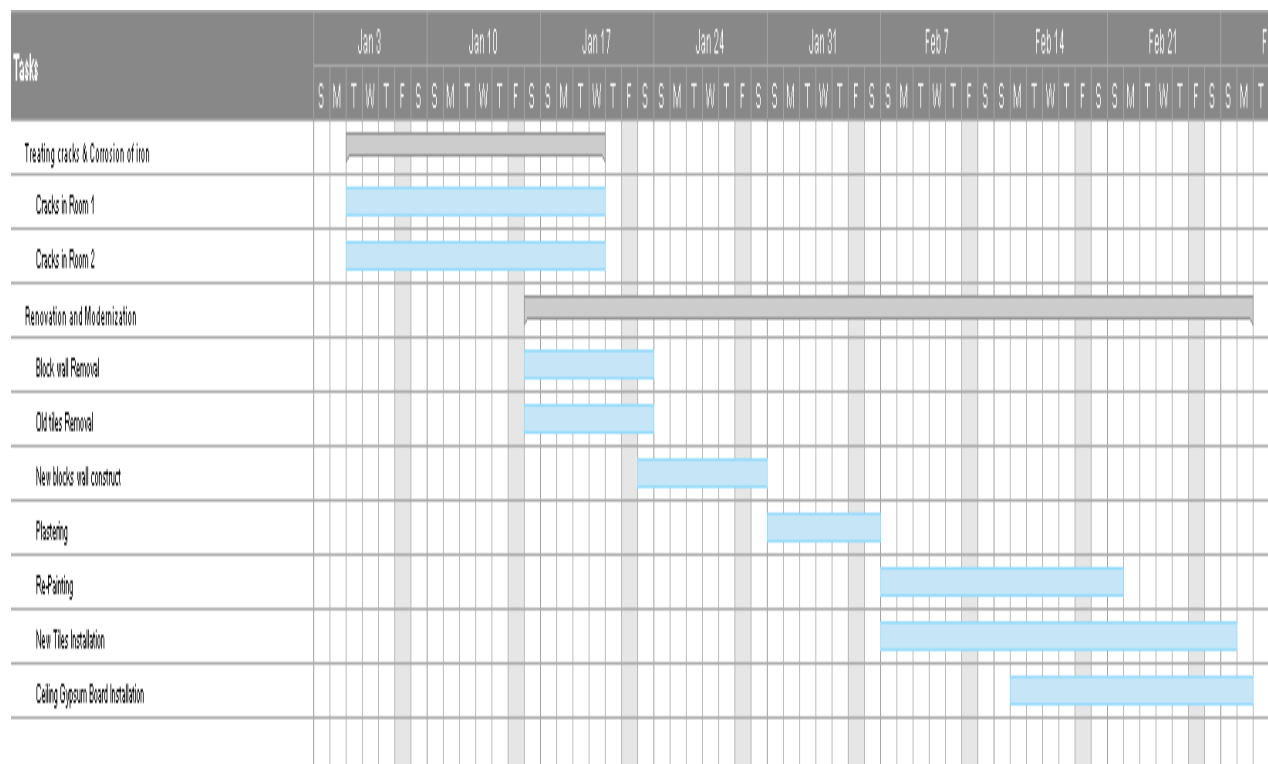


Photo – Gantt Chart

As result of the Gantt chart we can start tracking the progress of the project and try to avoid any delaying in the project.

5. Reference:

1. The New Psychology of Leadership: Identity, Influence and Power BOOK By S. Alexander Haslam, Stephen D. Reicher, Michael J. Platow.
2. Clemence Joseph Mumba (2020) conducted a study on the impact of leadership styles on organizational performance.
3. Hyde, W.D., "How Small Groups Can Solve Problems", Industrial Engineering,
4. Project Scheduling and Cost Control: Planning, Monitoring and Controlling by James Taylor (2019).