



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

Thursday

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Course Code

(PMG506)

Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-08 في تمام الساعة ٩ 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
- عدد صفحات البحث (لا يقل عن ثلاث صفحات ولا يزيد عن ست صفحات).

Instructor's Name: ~~Eng. Amaal Aburumman~~ Eng. Dr. Akram M. S. Ali

Project:

You are required to document your role in administering a project. The project may be set in a business, social, sporting, or family environment but must be of a significant size and scale. If you do not have an actual project to write about you may complete the project hypothetically. **This report will be between three to six pages in length.** This is a significant research project.

Your report must address ~~each~~ **ONE** of the following issues:

1. Identify and describe the purpose, scope, and objectives of the project. **Display this information using an appropriate tool.**
2. Describe how the team is given an outline of the project.
3. Describe the strategies that are going to be set up to maintain communication with the team members.
4. Describe the tools that are going to be used to monitor the goals, time frames or milestones.
5. Identify project milestones and activities. **Display this information using an appropriate tool.**
6. Create a budget and link the costs to the key milestones for a project.
7. Describe how you are going to divide tasks and resources amongst a project team. **Display this information using an appropriate tool.**
8. Briefly describe how the progress will be monitored.
9. How are current project records maintained? Who has responsibility for this? provide some recommendations on how this process could be improved.
10. Describe the current procedure for finalizing projects. Create your own procedure and identify how you will evaluate the success of the project.
11. Legislation that may affect the project including health and safety, and anti-discrimination legislation.

Best of luck...

المشروع:

مطلوب منك توثيق دورك في إدارة مشروع. قد يتم تعيين المشروع في بيئة تجارية أو اجتماعية أو رياضية أو عائلية ولكن يجب أن يكون بحجم مناسب. إذا لم يكن لديك مشروع فعلي لتكتب عنه ، فيمكنك إكمال المشروع افتراضياً. ستكون هذا التقرير من ثلاث إلى ست صفحات.

يجب أن يعالج تقريرك ~~كل~~ **احد** القضايا التالية:

1. تحديد ووصف الغرض والنطاق والأهداف من المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
2. صف كيف يتم إعطاء الفريق مخططاً تفصيلياً للمشروع.
3. وصف الاستراتيجيات التي سيتم وضعها للحفاظ على التواصل مع أعضاء الفريق.
4. صف الأدوات التي سيتم استخدامها لرصد الأهداف أو الأطر الزمنية أو المعالم.
5. تحديد معالم المشروع والأنشطة. اعرض هذه المعلومات باستخدام أداة مناسبة.
6. إنشاء موازنة وربط التكاليف بالمعالم الرئيسية للمشروع.
7. صف كيف ستقوم بتقسيم المهام والموارد بين فريق المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
8. صف بإيجاز كيف سيتم رصد التقدم.
9. كيف يتم الاحتفاظ بسجلات المشروع الحالية؟ من المسؤول عن هذا؟ تقديم بعض التوصيات حول كيفية تحسين هذه العملية.
10. وصف الإجراء الحالي لإنهاء المشاريع. قم بإنشاء الإجراء الخاص بك وحدد كيفية تقييم نجاح المشروع.
11. التشريعات التي قد تؤثر على المشروع بما في ذلك الصحة والسلامة ، وتشريعات مكافحة التمييز.

مع تمنياتي بالتوفيق..

BUDGET ESTIMATION FOR CONSTRUCT NEW MALL.

- **Introduction:**

In the market of construction company frequently investment organizations make a tender and give an opportunity for the construction companies to submit the price and usually, they terminate lower and higher price and awarding project for middle one that submits a reasonable price for the project, I was assigned to estimate the budget to the bidding of a commercial center that contains a central supermarket and a variety of restaurants, cafes, and various stores that serve the whole family with an entertainment area that includes games for all ages, cinema and many of service offered.

The project is unique because it serves an extreme area of the city that is in dire need of that type of project that improves the character and environment of the area. by assigned me to estimate the budget cost was the beginning of my work on the project.

First, I studied the project, looked at the bill of quantities, and visited the project land to check the quality of the land and the surrounding environment, then reviewing the project charter to read the scope and objectives of the project. the scope was establishing a mall that includes all construction, electrical, mechanical, and architectural works then test and commission and submit all the relevant scope to deliver the mall for the client within 20 months.

My role was to coordinate between all departments to estimate the cost for each section and collect it with the rate of profits, expenditures, and contingency reserve to extract the project budget, time schedule, and financial cash flows that we must provide and submit to the client of the project in order to complete the planning phase to ensures that they have the financial ability to start the implementation process and whether we can start implementing all buildings one time or a sequence way and that depends on the owner's ability to cover the financial cashflow.

Budgeting so Important since budgeting allows you to create a spending plan for your money, it ensures that you will always have enough money for the things you need and the things that are important to you. following a budget or spending plan will also keep you out of debt or help you work your way out of debt if you are currently in debt.

- **Literature Review and Conceptual framework:**

Budget is an instrument for appraisal the performance of managers, the organization in administrative activities like planning, preparation, and executing tasks and functions that are performed in the form of budget preparation which is an action plan measured in monetary units during a specified period. Plans are created using company goals, main purposes of budgeting: (1) development strategic organization, (2) collaborating the activities that exist in Organization (3) provide an allocation of resources and feedback performance of manager (4) as commitment, agreement, and basis for evaluating a manager [1].

Project management and cost management have improved in the last century. but still seen budget overruns and schedule especially in megaprojects one of the reasons for that is stem from human judgment. there are many kinds of estimate method but still rested upon an expert judgment. a thousand projects have been analyzed; However, it has been hardly controlled over the budget and schedules. However, the ability to control the project outcome is for lies partly in that uncertain events can be significantly reduced and partly in the new opportunities for project efficiency and increased teamwork that this method helps uncover [2].

According to the contingency definitions, the cost contingency is a reserve budget for impacts of risks and uncertainties relevant to a project. it should be addressable that the contingency budget is not intended to cover the impact of major scope changes. it just to keep a project within budget, an estimate of adequate contingency is essential. to this end, it is necessary that stakeholders be aware of different contingency calculation methods and select the most appropriate one based on the project characteristics and conditions [3].

When WBS is defined, all tasks must have their own budgets. The project budget must cover all the scope of work for constructing the project. The project scope includes certain and uncertain events. improper budgeting methods, inaccurate cost estimations, and unexpected risks as the main causing cost variations for the budget estimation. interest rate, the price for material and labor, the rental of equipment, and deviation from the planned schedule were risks for the budget estimation. analysis and studying the deferent between budgets and the actual costs of each component is essential to enhance the budget. The project budget has two types of reserves against risks: One is the contingency reserve and management reserve. the reserves calculated to cover all risks. the causes of cost overruns were improper contingency allowance, where a 5% to10% usually, but the actual 17.34% within the range of 15% to 20% allowance recommended by the U.S. [4].

- **Methodology:**

In order to quote the correct price when bidding for a project, the cost includes the resources and contingency reserve, to calculate the budget, we have to use one of the four tools.

Analogous or Top-Down	Parametric	Three-Point	Bottom-up
• Uses Historical data of similar project for estimation. • Can estimate both duration and cost • Used for resource estimation • Least Accurate • Least time consuming estimating technique • Can be used along with other estimating methods.	• Uses historical data and project parameters for estimation • Can estimate both duration and cost • Used for resource estimation • More accurate than Analogous • More time consuming than Analogous • Can be used along with other estimating methods.	• Uses 3 estimates and averages them to get the final estimate • Can estimate both duration and cost. • Not used for resource estimation • Most Accurate • More time consuming than Analogous and parametric. • Cannot be used along with other estimating methods • Allows more consideration for risk, judgement, and uncertainty.	• Estimates are made from the lowest level and aggregated upward. • Can estimate both duration and cost • Used for resource estimation • More accurate than Analogous and parametric. • Most time consuming estimating technique. • Cannot be used along with other estimating methods

For more precise and accurate techniques and provides reliable results we use Bottom-up tools because I have all the project details, we break the work into smaller components and address in schedule at milestones with all details available.

after collecting the price for each component and gathering finally get a total cost estimate for a project, then according to the situation of the company and financial status with studying the environment of the project we can calculate the rate of profit and contingency reserve, aggregated with the previous total price can get cashflow for the project easily with Primavera software and at the end we have an accurate price for bidding.

- **Results and Discussion:**

The calculation of budget after includes all price from all department in a company such as (structural, mechanical, electrical and architectural) is aggregate with our overhead and expenditures with the rate of profit and contingency reserve is become clear and identified, and for ensuring that price is reasonable we recheck two times and break the work again with brainstorm exercises to determine all type of risk and opportunity of occur, labor, material and equipment charge, price from a subcontractor for each task and any event is calculated, finally with the client and 8 competitive company our price become in the center of all and client them self-appreciate our effort and recommended our company to construct the project this a real evidence that the Bottom-up method calculation is the most accurate for this kind of project which we have all details and information but by contrast in the same organization we cannot use the same technic for all projects, especially with repeatedly projects which hadn't clear information or details, in that case, we use an Analogous method that will be more sufficient for this case,

My observation is all technics is effective for the case of project related to project characters, condition, situation, and available details and information but in my research project, the bottom-up technic was the appropriate one.

- **References:**