



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

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Course Code

(PMG506)

Advanced project Management

Instructions:

- آخر موعد للتسليم هو يوم الخميس 2021-05-20 في تمام الساعة ٩ مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الإنجليزية.
- 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. وإن 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

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 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. سيتمكنون هذا التقرير من ثلاث إلى ست صفحات .

يجب أن يعالج تقريرك كل من 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 ميزانية 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..

Connecting Facilities to Control Room using BMS

INTRODUCTION

As everything is moving forward to the new technology and the latest modern communication, and as its very important in a very large scale projects with many facilities, its highly recommended that all these facilities must be monitored and checked by the hour and every minute to make sure that everything is working safely according to the procedures and the policies of the local organizations and according the standard of the international organizations.

The goal of the project is to connect many systems and devices related to the maintenance and operation of the buildings within the facilities of the organization of the Hospital of Support Leaf which include three towers for patients and two parking for staff and the visitors and a utilities building to the Control Room of the organization which is the heart of the Facilities department where everything can be monitored by computers and coordinators thru BMS which is Building Management System.

Using BMS will put the Hospital in a very advanced level in using new technologies which makes everything related to maintenance and operation accurate and details where the system gives a very detailed reports about the life cycle of the assets of the facilities, BMS also shorten the distance of the large scale projects where it gives you the readings the status of the device in the Control Room without sending a technician to check that area which save time, also this technology reduce the amount of employees hired to check the devices in the field everyday so its helps the budget of the organization.

So what is Control Room? Control Room is where all the information of the buildings can be monitored and controlled by computers thru coordinators dedicated to receive the alarms thru BMS and priorities and decide which maintenance team is responsible to handle this alarm, also in Control rooms a team of operators are available to receive the messages and the calls of the end users of the Hospital Facilities so their requests can

be reviewed and checked. According to an article exploring the types of Control Rooms by Saraval Industries, Control room in general is a central location where technicians and managers manage the everyday operations as well as maintain and enact crisis operations for a given entity, its where monitoring of various industrial and technical process take place, sometimes this will require storing large pieces of equipment, servers, computers and monitors that graphically represent the various processes taking place in the facility (Maria, Vestal). [1]

What do we mean by BMS exactly? Building Management System is a system where is connect any system or devices or machines regardless its location where its far away or near to the Control Room so it can be monitored to check its status and to receive any alarm so the reaction will be faster in maintenance and operation wise where all this will save the assets of the Hospital facilities and save time and budget where it's also minimize the risk by avoiding any damages in a faster method. According to Wattsense [www.Wattsense.com](https://Wattsense.com) BMS is a computer based system installed in buildings to manage and monitor equipment such as air conditioning, heating ventilation, lighting, power systems where it reduces maintenance and reparation fees by helping facility managers and technicians monitor and controls systems remotely, BMS saves energy where 9% of world energy is controlled by building management systems. <https://Wattsense.com/bms> [2]

My role as a project manager for this project is to plan if the facilities and the control room are ready for this project and to select the appropriate BMS system to connect the facilities to the control room and then to test and commissioning the project and to operate the whole process and see if for a period of time after operation for handover after the success of its time deliverable, budget and scope and specifications where the main goal is to maintain communication with team members since communication will bring the project success to install a system where also assist to communicate better between the end users and the equipment not only humans.

The goal of the research is to check and find out if the strategies that are going to be set up to maintain communication with the team members will be successful factor in the accomplishment of the project.

LITERATURE RIVIEW

1. Managing communications effectively and efficiently

Once a project becomes more complex, our communications must be more detailed to ensure that we reach all the individuals with whom we must communicate to be successful (Abdui, G, 2013). Its challenging to communicate in our projects therefore we have to use all the methods of communications by all its ways, and using technology is one of these methods where in our projects is the using of BMS in the Control Room to connect all the facilities with the teams of the maintenance and operations, and as a project manager thru the phases of the project communicating with the project team and the stakeholders will minimize the misunderstanding about the goals of the project and the deadlines and the expectations and conflicts. [3]

2. The critical role of communication in project management

Without this communication. It's possible that efforts might be duplicated by multiple people or teams involved in the project, that important goals and milestones might be missed, that resources become misallocated. The end result is that projects can screech to halt, or worse fail together (Shayna, J, 2020). For effective project communication we have to use technology and one of the project manager duties is to make sure that the project team have the skills to use the latest and the available technology thru the lifetime of the project and during the test and commissioning and handover of the projects. [4]

METHODOLOGY

As a project manager I must understand the factor that the communication process requires a sender and receiver where I create the content to the receiver where they might reject or accept, the message must be delivered in a medium way not soft or strong, where I always focus on the feedback between the sender and the receiver. As a project manager I always focused on the communication model where I manage the sender the encoder and the medium and the decoder and the receiver, where I can control the large number of the teams and the groups of the project.

As a project manager with the project team we can identify the demand for the communication using organization charts, stakeholder responsibility relationships, disciplines involved in the project, the number of the teams and their roles, knowing who needs to be communicated, what needs to be communicated, when it should have communicated and where and why and how the communications need to be done.

It's very important to share knowledge by communication sharing, this happens by conducting meetings on every level daily weekly and monthly where it can be also in person, thru mobile and phones, videoconferencing, e mails, Faxes, and even BMS.

RESULT AND DISSCUSSIONS

The project of connecting the facilities of Support Leaf Hospital to the Control Room by using the BMS was successful, the project period was 6 months and it took 5 months since the date of the site handover, using the communication methods and its tools helped the project and assisted the other methods to be successful and limited the project time since there was understanding within the groups of their scope of work which was delivered thru the daily meetings and using of communications technology, the only obstacles appeared during the process of the project was some miscommunications between the original team of the projects and some contractors which was solved by handling meetings to make sure of proper communications between the different backgrounds of the teams and to detailed and make it clear who handles what and who is reporting to whom.

REFERENCES

1. Maria, Vestal. What is Control Room: Five different types of Control Rooms. Article at Saraval Industries - <https://www.saravalindustries.com/what-is-a-control-room/amp>
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3. Abudi, G. (2013) Managing communications effectively and efficiently. Paper presented at PMI Global Congress 2013 – North America, New Orleans, LA. Newtown Square, PA: Project Management Institute.
4. Shayna, Joubert. (2020) The Critical Role of Communication in Project Management. Article at Northeastern University 2020 – <https://www.northeastern.edu/graduate/blog/communication-in-project-management/>