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INTEGRATED FINAL PROJECT (BSR330)
CASE STUDY:
NATIONAL CANCER INSTITUTE, PUTRAJAYA

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DIPLOMA IN BUILDING SURVEYING

SEMESTER

OCTOBER 2023 – FEBRUARY 2024

ACKNOWLEDGEMENT

To begin, we would like to express our heartfelt gratitude to Allah (God) for providing us with life and breath every second, no matter where we are, and for always providing us with guidance and strength to carry out our responsibilities, as a student here. Furthermore, this task cannot be done without the labor and participation of our group members, Farhana Aisyah, Tengku Aqilah Najwa, Danial Hafidz, and Talha Syuraih. We constantly put in a lot of effort to ensure the quality of our assignments, and we take full responsibility for it.

Moreover, we would also like to acknowledge with most appreciation the crucial role of the staff from NATIONAL CANCER INSTITUTE especially to En. Muhammad Firdaus bin Ahmad Mansor also the Manager Facility from Ambang Wira Sdn.Bhd. En. Mohd Hassani Hasim, who gave the permission to us to get all the information and all required materials such as documents, data, and other files to complete the task and case study. Last but not least, many thanks go to the other technician and chargemen directly or indirectly, whose have invested their full effort in guiding our team in achieving the objective. We appreciate the guidance given by other supervisor as well as the panels especially in our project presentation that has improved our presentation skills, based on their comment and advice.

At the same time, we would like to thank our supervisor, Pn. Norazura binti Mizal Azzmi, for her supervision and advice in completing this project, as well as Dr. Sr. Hasnan Bin Hashim for the lectures. Our task could not have been finished in such a thorough manner without their instruction. They are always encouraging and giving us tips on how to do our work to obtain the best outcomes.

Finally, we would like to express our gratitude to the National Cancer Institute for allowing us to undertake a site visit to their facilities for our assignment report. Thank you to our friends and family for their support and willingness to spend time with us during our presentation.

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ABSTRACT

In this report, we present an interpretation of the multifaceted activities we observed and learned during our field trip to National Cancer Institute (NCI) in Selangor, Putrajaya. Our journey to NCI provided us with a unique opportunity to apply the theoretical knowledge acquired throughout our academic studies to a real-world context. The institute, dedicated to cancer research and treatment, stands as an exemplar of the complex and multifaceted building industry, where precision, efficiency, and innovation play a pivotal role in ensuring its successful operation.

This report delves into the integration of various aspects of the building industry within the context of NCI. We analyze and interpret our observations and findings, considering the following key components such as Organizational Management; we explore the administrative structures, decision-making processes, and strategies implemented by NCI to ensure its smooth operation and the critical role played by a dedicated team in achieving the institute's mission. In addition, to technology, we investigate the technological advancements, equipment, and systems employed at NCI, with a focus on how cutting-edge technology contributes to the effective delivery of healthcare services and research. Besides, Building Economics and Financing, we delve into the economic aspects of the NCI project, including budgeting, cost management, and financing strategies used to sustain the institute's operations.

Through this comprehensive analysis, we aim to demonstrate how the building industry aspects we've studied are interconnected and interdependent in a real-world setting. Our findings will provide valuable insights and recommendations for future projects within the healthcare and building industry, emphasizing the importance of a holistic approach in delivering effective and sustainable facilities.

In conclusion, our case study at NCI serves as a compelling example of the intricate web of factors at play in the building industry, illustrating the need for a harmonious integration of various components to achieve success in this complex and dynamic field.

1.1 INTRODUCTION AND ORGANIZATIONS BACKGROUND

Figure 1.1 National Cancer Institute (NCI)

Table 1.1 Name and address of the property

NAME OF THE BUILIDING	National Cancer Institute (NCI)
ADDRESS	No. 4, Jalan P7, Presint 7, 62250 Putrajaya.

The National Cancer Institute is a specialized cancer medical facility in Malaysia, designed to meet the country's growing cancer-related demands. It is the first project by the Public Works Department to use building information modeling (BIM) for designing, coordinating, and maintaining facilities. The institute involved 1000 workers and personnel, with strict monitoring, safety, environmental management, and quality control methods. The building achieved a record of 5 million working hours without a lost working day. The thermomodern architectural elements, including sun orientation, energy efficiency, and stunning views of nature, create a user-friendly environment for patients, visitors, and staff. The institute offers core services such as radiotherapy, oncology, nuclear medicine, oncology surgery, and palliative care. It also offers specialist clinic treatments, inpatient services, day care services, and clinical support services.