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KAMPUS SERI ISKANDAR**

CITY CAMPUS HERRIOT WATT W.P PUTRAJAYA

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ABSTRACT

Integrated Final Project (IFP) is the most important report that should be prepared by the Final Year Students of AP119 program. This study is to analyze from a maintenance organization manage in a case study building. The group shall relate the data with their knowledge in how to build a well maintenance organization. At the end of this study, the students should be able to identify the strength and weakness of the organization that may emphasis to the property maintenance management. The objectives of the project are to delivered the understanding on the importance of the property maintenance management, learn and analyze through the data collection on the multi-disciplinary approach in maintenance and prepare a scientific technical report of any commercial building.

The types of information that have been place in the report are The Detail Of Property, Maintenance Management and study on organizational structure, economic context of organization and also the roles and duties of maintenance division and scope of work, Maintenance Policy and Planning that also included maintenance programme that been done in the building, the Building Design and Technology Design of the building as the building is a green building and using the system that been use in latest building, Condition Assessment Of the Building regarding on it situation, Maintenance Strategy on the benchmarking and KPIs, Legal Aspect that been required for institution building, Financial Analysis, Problems and Recommendation for the building.

The types of building that been chosen is an institution building that is City Campus Putrajaya in Putrajaya, Malaysia. The campus will include a built-in control system driven by overall thermal transfer value which essentially measures the energy consumption of air conditioners. The campus lighting will be ‘powered’ by the maximum use of natural daylight through passive design such as natural glass glazing with no blinds installed. The building will also feature a rainwater harvesting system. The air-conditioning system used for the campus will be a combination of variable refrigerant volume (VRV) and gas district cooling (GDC) systems in a cooling strategy which optimises the usage of air-conditioning in a building.

Currently, a green building approach has widely implemented as to reduce a carbon footprint as to support a sustainable agenda by the Government of Malaysia. In fact, according to GBI (2015), a Green building focuses on increasing the efficiency of resource use while reducing building impact on human health and the environment during the building’s lifecycle, through better siting, design, construction, operation, maintenance, and removal.

1.1 INTRODUCTION

The construction of Heriot-Watt’s purpose-built green campus in Malaysia has been featured in a leading publication in environment and sustainable businesses in Asia Pacific.

The construction of the Malaysia Campus, which started in May 2012, is well advanced with significant elements of the structure now complete. Over the last three months considerable progress has been made in the interior design and work has now started on the construction of an arching green roof from ground to fourth floor.

The new campus will create space for up to 4,000 undergraduate and postgraduate students to study a range of courses providing UK higher education qualification in science, engineering, business, mathematics and design tailored to the needs of industry, commerce and wider society and will not only serve students from across Malaysia, but will offer opportunities to students from countries in the surrounding region. This latest Heriot-Watt international development responds to Malaysia’s drive for economic growth and development, offering high quality British education to students from Malaysia and across Asia.