

Electricity Usage of Undergraduates of University of Kelaniya; a special comparison of 1st year students and other students

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1. Introduction

Electricity is a need as well as a higher cost incurring expenditure of the university. Thus, electricity should be used in proper way so that it ensures the efficiency of the employees as well as the students. Today due to the Green concept executing in the university, optimizing the electricity consumption is important. Considering these consequences, as a first stage, USDMU analyzed the approximate per head electricity consumption of undergraduates of the university. The two hostels of male undergraduates, CWW Kannangara hostel and the Yakkaduwe Pagnarama Thero hostestel was used for the analysis.

The data sources of this study are, General Administration branch, Bursar's Office and the Student Welfare division.

2. Results, Findings and Conclusion

2.1. Results and findings

For the study, electricity usage in units was recorded monthly for the year of 2016.

Following is a summarized description of the usage of the electricity.

Figure	CWW Kannangara hostel	Yakkaduwe Pagnarama Thero hostel
Average	4143	3384
Minimum	2905	1263
Maximum	5021	4454

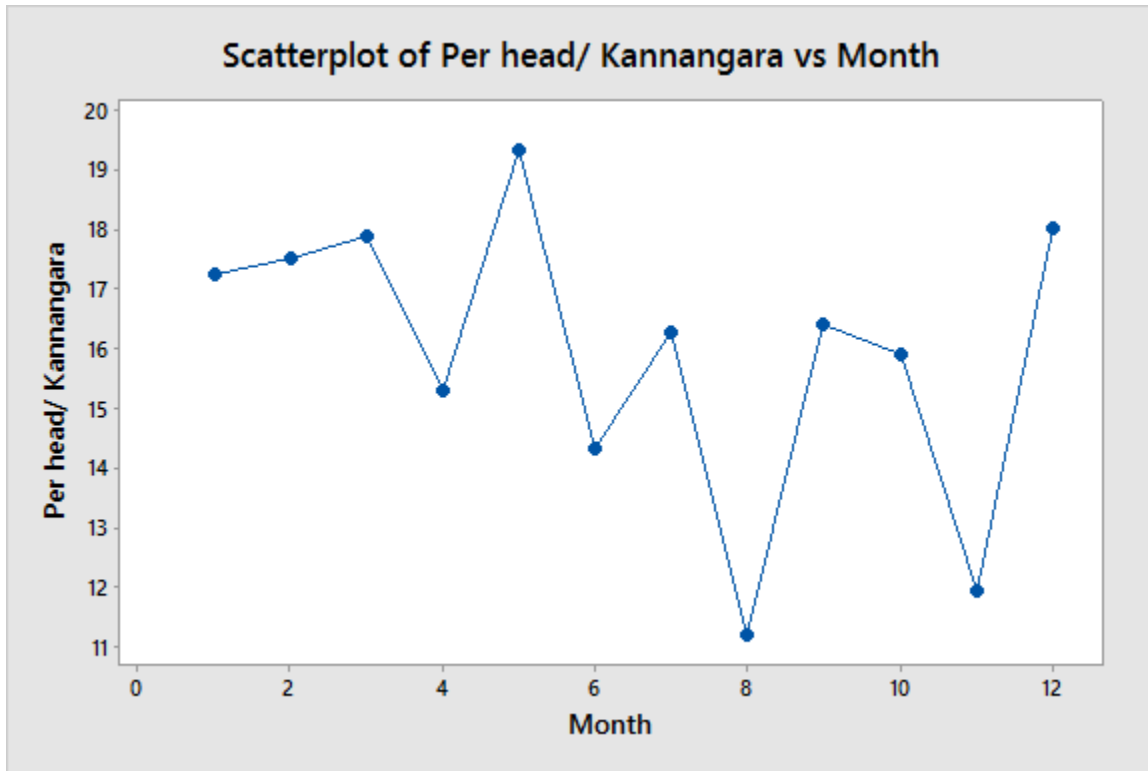
Per head usage:

Figure	CWW Kannangara hostel	Yakkaduwe Pagnarama Thero hostel
Average	16	10
Minimum	11	4
Maximum	19	13

When comparing the two hostels, the average per head electricity consumption of first year students were less than that of other undergraduates.

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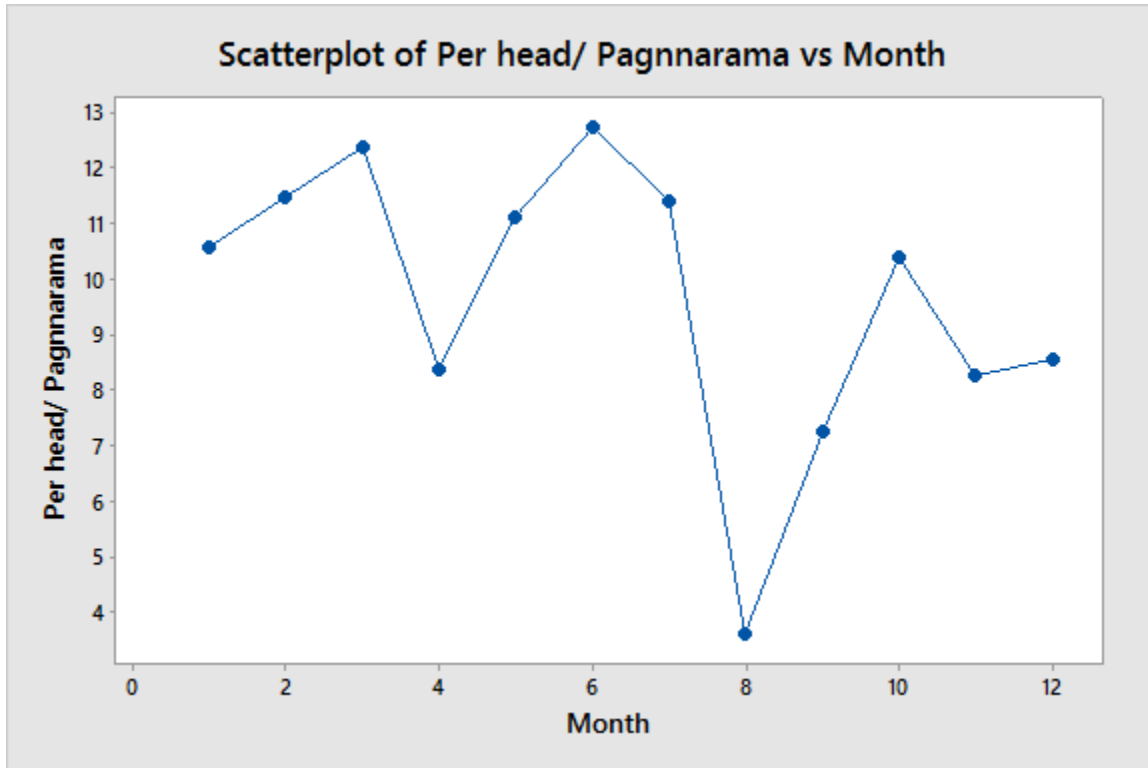
Distribution of electricity consumption Kannangara hostel



The highest usage was recorded in month May and the least was recorded in month August for the Kannangara hostel.

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Distribution of electricity consumption Pagnarama hostel



The highest usage was recorded in month May and the least was recorded in month August for the Pagnarama hostel.

2.2. Discussion and Conclusion

This study is based only on the year 2016. Therefore, the seasonal fluctuation of the electricity consumption cannot be captured from the analysis. When comparing the two groups it is highlighted that the electricity usage is less than that of non- first year students. There may be several reasons like, undergraduates except the 1st year students use various electric equipment such as laptops mobile phones. Or the reasons might be because the 2nd, 3rd and 4th year students have more coursework than 1st year students. However, it is evident find out the reasons of high usage of electricity of 2nd, 3rd and 4th year students compared to the 1st year students.