## Recreation Carrying Capacity via Visual Base Analysis Regarding Diyatha Uyana Park

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## **Abstract**

Purpose of this study was to investigate Recreation Carrying Capacity (RCC) of Diyatha Uyana Park in terms of people at one time (PAOT) and building the norm curves. Crowding is able to provide negative effects on recreation, that's why park management has to concern "how much is too much?" for a recreation park. Crowding is considered as a social norm, and it can be varied within the education discipline of the people. This study has taken normative approach and the social norm curve was prepared regarding Diyatha Uyana Park in terms of PAOT. Overall and group norm curves were prepared through this study, with regards to education background of the sample. Visual base analysis method was applied to estimate norms in terms of PAOT. 9 photographs which represent range of PAOT at Divatha Uyan were used to distribute within the sample of 180 final year undergraduates in the University of Kelaniya. And the sample was carefully treated because this study extended to employ one-way ANOVA to identify the group differences. Therefore equal number of students were randomly selected as a sample from each subject discipline in the university. And pilot study was employed using independent sample t-test to identify the mean differences between photo presentation order and acceptability rates of respondents. All respondents were asked to rate acceptability according to PAOT regarding each photograph, and social norm curves were develop considering those responses. The result implies that the norms which based on mean value of each PAOT were not significantly vary within education discipline. The "p" value of the ANOVA test was less than 0.05 level of significance. The result of the present study is relevant to the park management to make decisions and maintain crowding and it also will lead to protection of park resources and fulfill visitor satisfaction.

**Keywords**: Recreation carrying capacity, PAOT, Visual base method, Norm curve, ANOVA.

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