**IS 3005 – Statistics in practice**

**Project Proposal**

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| **Survey topic:** A study onComputer & English literacy of 1st year undergraduates of UOC FOS | | | |
| **Introduction:** Computerand English literacy is the level of knowledge and skills regarding effective use of computer, technologies, and limited working proficiency in English for individuals’ targets.  In most of the universities, English is the medium of instruction. For understanding references, lectures, and assignments it is necessary to learn English well. Nowadays programming is also one of the most important skills. It is no longer an option; it’s an essential life skill for undergraduates.  In this study computer literacy is partitioned into two categories.  They are,   1. Basic computer literacy 2. Basic programming knowledge   Computer and English literacy play a major role in university studies. Here the literacy of computer and English will be tested and helps to obtain maximum benefits through university studies. | | | |
| **Significance of the study:** Computer and English skills plays an essential role in university studies and most importantly verbal, written ability in English is mandatory in many industries. Programming has become a basic requirement for acquiring many jobs these days, with many companies looking for employees who have a strong grasp on programming knowledge. The ultimate objective of this study is to test the literacy level of computer and English among 1st year undergraduates. If the level of skills and knowledge on these areas are considerably low some workshops can be organized to improve their literacy. It might have helped them to obtain maximum benefits through academic and non-academic activities. | | | |
| **Objectives:** Our mainobjective is to get an idea about the basic computer knowledge, computer programming and English literacy of 1st year undergraduates.  To determine how English literacy, programming knowledge are associated with gender.  To figure out how English literacy, programming knowledge are associated with Stream.  To investigate if the students from western province have a higher English and computer literacy compared to other provinces.  To check whether if the parents’ education has an influence on English literacy.  Identify the most preferred method to improve computer literacy out of self-study and by following a course. | | | |
| **Variables/Data:**   |  |  | | --- | --- | | Variable name | Variable Description | | Registration Number | The registration number of the student | | Gender | The gender of the student (Male, Female) | | Province | The province student from (Western, Southern, North…) | | Uni\_Stream | The stream student follows in the university (Physical, ISMF, Bio, MB) | | School type | The type of school (Government, Semi-government, Private) | | A/L attempt | Advanced-level exam attempt (1st, 2nd,3rd) | | Father’s education | The education level of father (O/Levels, A/Levels, Diploma, Degree) | | Mother’s education | The education level of mother (O/Levels, A/Levels, Diploma, Degree) | | Guardian’s education | The education level of guardian (O/Levels, A/Levels, Diploma, Degree) | | Computer | Whether the student has a computer or not (Yes, No) | | Duration | How long the student has been using a computer (Less than year, 1-3 years, more than 3 years) | | Internet\_Connection | Whether the student has internet or not (Yes, No) | | Computer\_Course | Whether the student has followed any computer course or not (Yes, No) | | Com\_Rate | Computer literacy rate (Very good, Good, Average, Weak, very weak) | | Eng\_Rate | English literacy rate (Very good, Good, Average, Weak, very weak) | | MS\_Word | MS Word skill level (Very good, Good, Average, Weak, very weak) | | MS\_PowerPoint | MS PowerPoint skill level (Very good, Good, Average, Weak, very weak) | | MS\_Excel | MS Excel skill level (Very good, Good, Average, Weak, very weak) | | Pro\_Course | Whether the student has followed any programming course or not (Yes, No) | | Pro\_Rate | Programming literacy rate (Very good, Good, Average, Weak, very weak) | | Pro\_Language | What programming language the student has followed (Python/ Java / JS /None/ Other) | | | | |
| **Methodology:** Computer & English literacy of 1st year undergraduates of UOC FOS was selected as the study after discussing with group members.  Questionnaire will be designed using google forms.  Questionnaires will be presented to the lecturers to get feedback.  Survey will be distributed among the individuals using WhatsApp.  Responses will be observed, and unusual data points, missing values and outliers will be identified.  The data will be preprocessed using data cleaning techniques before the analysis if required.  The analysis part will be done using SPSS and R.  The report will be prepared. | | | |
| **Target Population:** 1st year undergraduates of UOC FOS | | | |
| **Sampling Frame:** A list of phones (WhatsApp) numbers of 1st year undergraduates | | | |
| **Mode of data collection:** Online survey | | | |
| **Time schedule:**   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **11/21-11/27** | | | **11/28-12/04** | | **12/05-12/11** | **12/12-12/18** | **12/19-12/26** | **12/26-01/02** |  | |  |  | | | | | | | | Research topic | |  |  |  | | | | | | | Project proposal | |  | |  |  | | | | | | Project proposal presentation | |  | | |  | | |  | | | Data collection | |  | | | | | |  | | | Data pre- processing | |  | | | | | |  | | | Data analysis | |  | | | |  | | | | | Reporting | |  | | | | | | | | | Report Presenting | | | | |
| **References:** Sri Lanka youth and their exposure to computer literacy.(W. Indralal De Silva)  [**https://sljass.sljol.info/articles/10.4038/sljass.v3i1.7127/galley/5511/download/**](https://sljass.sljol.info/articles/10.4038/sljass.v3i1.7127/galley/5511/download/) | | | |