Research Methods and Professional Practice: Seminars

Seminar #5: Charts Worksheet and Analysis

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| **Module Title** | **Learning Outcomes** | **E-portfolio Requirements** |
| Charts Worksheet and Analysis | 1. Use an Excel workbook to create bar charts depicting the frequency percentages of software development project success (Shrestha *et al*., 2022 p.50). 2. Design and develop histograms for software development projects. 3. Create charts using LibreOffice. | * Collaborative discussion between students and their peers or between students and the instructor. * A reflective paper detailing what was learned from the module and their impact on student's knowledge base and future actions (Sarna, 2010). * Summary of the seminar * Feedback from peers and instructors. * Identification of professional skills developed. |

Seminar #6: Preparation

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| **Module Title** | **Learning Outcomes** | **E-portfolio Requirements** |
| Professional Skills Matrix Review | * Compare content from the course modules, including how they relate to professional skills (Potter, 2020 p.69). * Propose items that should be included in the professional skills matrix and the course modules. * Gather evidence from all modules to identify how to substantiate professional skills. * Complete a SWOT analysis and action plan. | * Collaborative discussion to increase student engagement (Wu *et al*., 2013 p.622). * A reflective piece on the course area that has impacted professional practice. * Summary of the module * Feedback from peers and instructors. * Identification of professional skills developed. |

**Reference**

Potter, L.E., 2020, June. Preparing for Projects: IT Student Self-Evaluation of Technical and Professional Skills. In *Proceedings of 2020 on Computers and People Research Conference* (pp. 63-69).

Sarna, D.E., 2010. *Implementing and developing cloud computing applications*. CRC Press.

Sasankar, A.B. and Chavan, V., 2011. SWOT analysis of software development process models. *International Journal of Computer Science Issues (IJCSI)*, *8*(5), p.390.

Shrestha, R., Leinonen, J., Hellas, A., Ihantola, P., and Edwards, J., 2022, February. CodeProcess Charts: Visualizing the Process of Writing Code. In *Australasian Computing Education Conference* (pp. 46-55).

Stahl, B.C., Timmermans, J. and Mittelstadt, B.D., 2016. The ethics of computing: A survey of the computing-oriented literature. *Acm Computing Surveys (CSUR)*, *48*(4), pp.1-38.

Wu, X., Anderson, R.C., Nguyen-Jahiel, K. and Miller, B., 2013. Enhancing motivation and engagement through collaborative discussion. *Journal of Educational Psychology*, *105*(3), p.622.