



particular users; required developers and evaluators with experience in usability evaluation strategies; significant role of the interface in interactive processes; allocated budget for evaluation; and time constraints. Accordingly, the usability of any developed application can be verified through the user instruction interface (Abdulrauf, Ariffin & Sobihatun, 2019). Many usability methods have been introduced, such as Metrics for Usability Standards in Computing (MUSIC), Automated Interface Designer and Evaluator (AIDE) and Evaluation of program impact, output or Product Evaluation. Moreover, in model such as the Diagnostic Recorder for Usability Measurement (DRUM), and the Skill Acquisition Network (SANE), nevertheless all these models and methods still have some limitations and not focusing on courseware instructional interface.

As a rest to that, usability evaluation is often ignored as part of the activities within the design procedures of courseware. The evaluation activities performed uncommonly by experts than the users (Sharp et al., 2007; Semugabi & De Villiers, 2007). Consequently, the major benefits that are associated with evaluation are not actualized. More so, usability evaluation should be performed iteratively not at once-off activity, by applying different suitable measurement tools throughout the stages of a product's development life cycle (Teka, Dittrich, Kifle, Ardito & Lanzilotti, 2017). This study aims to design a measurement tool that is able to evaluate the usability of instructional interface of a courseware based on the Quality in Use Integrated Measurement (QUIM) as well as the usability attributes and dimensions that must be considered in the instructional interface designing.

Usability is the basic factor to consider when developing any courseware interface. How usable the product is the main objective of interface developers. Researchers have considered usability as a fundamental part to determine the quality of application software and it has become an important process to enhance the product utility (Tosho, 2019). In designing of instructional interface, usability is required to ensure the effectiveness for the intended users. On the other hand, researchers have described usability as a measurable quality of a product (Huang & Chen, 2019). For any application developed, we cannot say it is "96.3% usable" due to the neglected elements in it interface design. Subsequently, its report value such as completion time, metrics task, and error rate, and environmental satisfaction of user on the interface are actualized (Sirisuriya et al., 2013). Therefore, usability is about the use of an effective application to achieve goals and the process of achieving the goals with efficiency. An essential feature of courseware interface design is usability (Davids et al., 2013). Therefore, usability refers as the efficiency, effectiveness and pleasure that specified users attained to actualize the specified tasks within particular environments (Abdulrauf, Ariffin, AbdulSalam, 2019).

As described above, usability helps users to accomplish specific tasks with more efficiency, effectiveness, and motivate within specified context of use. Also, it is described as efficiency with which resources are disburses in relation to the correctness, and completeness with which users applied to achieve specified tasks (Neal & Miller, 2005; Somers, 2005). On top of that, this study defines usability as the use of appropriate elements in interface design courseware to ensure maximum performance and it should be effectiveness for everyone, regardless of specific users. Usability is generally connected with five parameters challenges (Nielsen, 1990):

- i. Easy to learn: Users can rapidly accomplish some work with the system,
- ii. Efficient to utilize: Once the user has learnt the system, a high level of productivity is possible,
- iii. Easy to remember: The casual user can come back to utilizing the system after some period without having to learn everything all over,
- iv. Few errors: Users do not make numerous errors while utilizing the system or it can easily be recover, and
- v. Pleasant to use: Users are subjectively fulfilled by utilizing the system.



4. CONCLUSION

Effective evaluation should be iterated and should involve users in a multi-layered design of evaluation (Taylor, 2006). To realize the effective interface strategies depends on the usability or principles that take cognizance of both learning process and interface design factors (UX Nuggets: Thoughts and advice on usability and user experience, 2011). The usability in the content of instructional does not related only interface design but includes the elements that guide content or information, and functional tools that could be use to perform tasks. The interactive part of clearing systems provides learners with access to vast amount of instructional contents in differed forms, control over the procedure of learning, and the potential for collaboration with the system and other people. Such system enhances the learners' and enforces evaluators on learning how to adopt a broad based set of methods and criteria to accommodate 'self-directed' evaluation learning (Abdulrauf, Ariffin, Sobihatun, 2019). On the other hand, the usability as well as metrics, evaluation factors, and criteria for interface design are inconsistently defined across different standard (Aziz, kamaludin & Sulaiman, 2013).

