

## **OER-INTEGRATED ONLINE COURSE DEVELOPMENT BY INCORPORATING APPROPRIATE INSTRUCTIONAL DESIGN FEATURES**

***T. C. Sandanayake<sup>1\*</sup>, S. P Karunanayaka<sup>2</sup>, A. P. Madurapperuma<sup>3</sup>***

*<sup>1</sup> Faculty of Information Technology, University of Moratuwa*

*<sup>2</sup> Faculty of Education, The Open University of Sri Lanka*

*<sup>3</sup> Faculty of Engineering, The Open University of Sri Lanka*

The Open Educational Resources (OER) movement promotes providing free and open access to high quality digital educational materials for teachers and learners. Creating OER-integrated courses requires moving beyond the traditional teacher-centred learning methods, integrating OER into online course development which provides more freedom for both teachers and learners to become more creative and innovative. Use of appropriate Instructional Design (ID) features such as a systematic approach to organizing the teaching-learning process allows course designers to make the learning experience more efficient, effective, and appealing to learners. This research study focused on identifying appropriate ID features in the development of OER-integrated online courses for undergraduate learners. It adopted a Design Based Research (DBR) approach and this paper focuses on the first two phases of the DBR process: 1) analysis of the problem and 2) design of solutions in the form of an intervention. Initially, desirable ID features were identified by reviewing existing OER-integrated online courses. An intervention was designed incorporating these identified ID features and implemented as an OER-integrated online course to support the learning process of undergraduate learners. Based on learner perceptions and learner performance during this intervention a set of ID features were identified under four ID aspects – information, instruction, interface and interaction design, which incorporated in the development of OER-integrated online courses.

Keywords: Open Educational Resources, OER-integrated online learning, Instructional Design

*\*Corresponding author: email- thanujas@uom.lk*