

**Assessment of Outcomes Achievement:
Status of Quantification and Automation in Bangladesh**

Hasan Sarwar

Professor, Department of Computer Science and Engineering,
United International University, Dhaka, Bangladesh

Abstract

Bangladesh is starting her journey to implement outcome-based education (OBE). Universities are working hard to introduce OBE curricula and assessment mechanisms. However, it is understood that teaching delivery and assessment are going through a paradigm shift. Initially, it seems that the workload of teachers has increased due to the extra effort they need to put into calculating marks to determine OBE parameter achievements. In this scenario, development of a generic Web-based tool having easy integration facilities with existing software packages deserves to be accepted by the academic community. This write-up presents such a system that is being designed and developed for the academic community of higher education in Bangladesh. Our initial perception is that if we could prepare an automation that will reduce teachers' workload for OBE mark calculation, teachers will be more empowered to provide their best effort in developing and designing curricula and assessment mechanisms. In a way, this will help the country to better absorb the main theme of OBE curricula and end the journey of implementation quite early. The present system deals with data entry for program outcomes, course outcomes and linkage with course curricula and assessment mechanisms. The system is now ready to prepare reports on CO achievement, PO achievement, CQI reports, and more.



Hasan Sarwar received his BSc in CSE from Bangladesh University of Engineering and Technology in 1995. Later, in 2006, he received his PhD in applied physics, electronics, and communication engineering. Currently, he is working as a professor of CSE at United International University. His research interests include optical character recognition, health monitoring systems, software engineering, and education management. Prof. Hasan recently started a software company that designs, develops, and deploys a total ERP solution for university automation. He is also a member of the Board of Accreditation for Engineering and Technical Education (BAETE), Bangladesh.