



Industrialized Building System (IBS)

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IBS is a new field of where it is viewed as a system, process, approach or industrial philosophy towards shortening building build-up time, reducing labour costs as well as material type and its subsequent usage. IBS is easily assumed to be of similar characteristics and definition with Off-site Construction (OSC), Modern Method of Construction (MMC), Off-site Manufacturing (OSM), Off-site Production (OSP), Industrialised Building, pre-assembly, prefabrication, and modularization. In principle, regardless of the terms used, the idea is to move some effort away from the construction site to a more controlled environment of the manufacturing floor.

However, the above description is associated with hardware elements, which are only concerned with the structure itself. IBS is wholesome enough to include "software elements" of building systems, which are concerned with the data and information available on the system, users, clients, establishment of manufacturing and assembly layout and process, as well as allocation of resources and material. The use of IBS can shorten the time and reduce the waste of any construction projects. In addition, the workforce can be reduced by 5 to 10% by applying IBS in the construction project. Although it was started intensively by the Government in 2003 in order to revamp the construction industries, the statistics shows that the usage of this system by the industries is still low.

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towards research collaboration and knowledge transfer between UniMAP academia and practitioners of IBS. The industrial back-up especially from an establishment such as Proven Holdings Sdn, would strengthen UniMAP, particularly the School of Environmental Engineering, as a leading training centre for IBS, especially in the Northern Region.



The MoU partners saw early success with an IBS short course organized by both UniMAP and Proven Holdings Sdn. This short course provided theory and practicals on how to utilize and install IBS in construction work. The short course was held for two days on the 9th and 10th of October. This program provided overview on the theoretical and practical aspects in utilizing and installing IBS in the construction works. It was a successful event, attended by students, contractors and engineers.