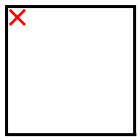

UNIVERSITI TEKNOLOGI MARA

AAR451: CONSTRUCTION TECHNOLOGY I

Course Name (English)	CONSTRUCTION TECHNOLOGY I APPROVED
Course Code	AAR451
MQF Credit	3
Course Description	This course is an introduction to the building industry. It covers the general overview of the construction process encompassing material, component, assembly, site work as well as the various parties involved. The study of load bearing masonry construction in bricks, blocks and stone shall be covered.
Transferable Skills	Consider and act upon the ethical, social and global responsibilities of self actions Intellectually curious and engage in the pursuit of new knowledge and understanding
Teaching Methodologies	Lectures, Seminar/Colloquium, Demonstrations, Field Trip, Tutorial, Workshop
CLO	CLO1 Illustrate basic understanding of building construction and materials, construction process and trades and professional in construction industry. CLO2 Discuss the importance of roles of various building trades and consulting professionals. CLO3 Explain the constructional methods and usage of appropriate building materials that relate to small and medium scaled buildings.
Pre-Requisite Courses	No course recommendations

Topics
1. Building trades and consulting professionals. 1.1) N/A
2. Building elements and components. 2.1) N/A
3. Materials commonly used in building construction. 3.1) N/A
4. Concepts of load bearing and framed construction. 4.1) N/A
5. Framed construction in timber, RC and steel. 5.1) N/A
6. Load bearing masonry construction in bricks, blocks and stones. 6.1) N/A
7. Building materials associated with load bearing masonry construction. 7.1) N/A

Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment

Assessment Type	Assessment Description	% of Total Mark	CLO
Assignment	n/a	10%	CLO2
Assignment	n/a	30%	CLO3

Reading List

Reference Book Resources

- **R. Chudrey, R. Greeno 2008, *Building Construction Handbook*, Ed., , Butterworth-Heinemann [ISBN:]**
- **C. Binggeli 2007, *Material For Interior Environments*, Ed., , USA: John Wiley & Sons, Inc [ISBN:]**
- **Illlston, J.M 1993, *Construction Material - The Nature And Behavi*, Ed., , London, E. & F.N. Spoon [ISBN:]**
- **F. Chimg, D.K Ching & C.Adams 2001, *Building Construction Illustrated*, Ed., , Wiley [ISBN:]**
- **F.S Merrit & J.T. Ricketts 2001, *Building Design and Construction handbook*, Ed., , McGraw-Hill [ISBN:]**
- **Ambrosse, J. 1991, *Building Construction: Enclosure Systems*, Vol 1 Ed., V.N.R. London**

Article/Paper List: This Course does not have any article/paper resources

Other References: This Course does not have any other resources