



UNIVERSITI TEKNOLOGI MARA

PMG455: CONSTRUCTION MATERIALS

Course Name (English)	CONSTRUCTION MATERIALS APPROVED
Course Code	PMG455
MQF Credit	3
Course Description	This course will focus on the basic types of construction materials and their characteristics. It covers the basic construction techniques and usefulness to park and amenity management.
Transferable Skills	Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts.
Teaching Methodologies	Lectures, Field Trip, Tutorial, Presentation
CLO	CLO1 Explain various materials used in construction works. CLO2 Construct common techniques in construction works. CLO3 Generalise issues related to construction works in park management.
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction (general) 1.1) 1. Overview on Construction Industry	
2. Building Team and Substructure 2.1) 1. Contract 2.2) 2. Construction Site Work	
3. Concrete 3.1) 1. Reinforcement 3.2) 2. Types 3.3) 3. Concrete Test	
4. Stone 4.1) 1. Igneous Rock 4.2) 2. Sedimentary Rock 4.3) 3. Metamorphic Rock	
5. Wood 5.1) 1. Type of wood 5.2) 2. Wood Treatment	
6. Metal, Glass, Bituminous 6.1) 1. Uses in Industry	

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Critically review articles and form an objective opinion	20%	CLO3
	Test	Materials used in construction works	30%	CLO1

Reading List	Recommended Text	<ul style="list-style-type: none"> • Co Heineman, T. & Rosen, H.J. 1996, (1996). <i>Architectural Materials for Construction.</i>, New York, McGraw-Hill. • Rodrigo, S. 2008, <i>The Engineering of Foundations</i>, McGraw-Hill • Marotta, T. W. 2005, <i>Basic Construction Materials.</i>, Seventh Edition. Ed., Pearson Prentice Hall
	Reference Book Resources	<ul style="list-style-type: none"> • Zakaria Mat Lazim 2001, <i>Materials of Construction.</i>, Third Edition. Ed., McGraw-Hill.
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	