



UNIVERSITI TEKNOLOGI MARA

BSS505: BUILDING PATHOLOGY AND CONTROL I

Course Name (English)	BUILDING PATHOLOGY AND CONTROL I APPROVED
Course Code	BSS505
MQF Credit	3
Course Description	This course is a continuation from Building Control (BSB454) and aims to prepare the students with advanced knowledge of building control legislation and relevant acts. The knowledge gained will provide students with a holistic approach to building control legislation.
Transferable Skills	Building Control & Monitoring, Building Defect, Diagnosis & Remedial treatment
Teaching Methodologies	Lectures, Field Trip, Practical Classes, Tutorial
CLO	CLO1 identify the building control legislation and its associated rules and regulations. CLO2 apply of building control for comprehensive development processes and the principle of regulation within the building by laws. CLO3 analyse building proposals and vetting for compliance with regulations and identify the role of the Building Surveyor with respect to Building Control.
Pre-Requisite Courses	No course recommendations
Topics	
1. DEVELOPMENT CONTROL PRACTICE 1.1) Definition 1.2) Development Control Practice 1.3) Planning Permission & Building Plan Approval 1.4) Issues	
2. DEVELOPMENT CONTROL TOOLS 2.1) Definition 2.2) Planning Standards 2.3) Guidelines 2.4) Issues	
3. ILLEGAL BUILDING AND STRUCTURES 3.1) Definition 3.2) Types of Illegal Building 3.3) Legal Action 3.4) Issues	
4. DEVELOPMENT CHARGE 4.1) Definition 4.2) Act Provision 4.3) Rate of Development Charge 4.4) Exemption	
5. PROJECT CONTROL AND SITE MONITORING 5.1) Pre-construction 5.2) During Construction 5.3) Post Construction 5.4) Issues	
6. CONSTRUCTION SAFETY ISSUES 6.1) Managing Health and Safety 6.2) Construction Hazards 6.3) Occupational Safety and Health Act 6.4) Issues	

7. REQUIREMENTS OF BUILDINGS 7.1) Design and construction aspect – functional, performance, statutory & user 7.2) How building design adapt with the micro and macro climate 7.3) Special consideration on Malaysian climate
8. BUILDING DEFECT 8.1) Definitions 8.2) Category & causes 8.3) Assessment of defect 8.4) Common building defect in Malaysian climate 8.5) Fabric defects, identification, recording and remedy 8.6) Damage & decay resulting for atmosphere climatic action
9. BUILDING INSPECTION & SURVEY 9.1) Definition and types of survey 9.2) Principles, procedures and techniques in surveying buildings 9.3) Diagnostic equipment and its use 9.4) Use of pro-forma surveys of domestic buildings
10. BUILDING SURVEY REPORT 10.1) Types & content of a each report 10.2) Essentials of a good report writing 10.3) Purpose and nature of a report
11. PRESENTATION ASSIGNMENT 11.1) n/a
12. TEST 12.1) n/a
13. EXAMINATION 13.1) 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%	
	Assignment	n/a	10%	
	Discussion	Marks are given based on 5 tutorials (5 weeks) as continuous assessment for the whole semester	10%	CLO1 , CLO2 , CLO3
	Group Project	Comparison of regulations implementation by local authorities	10%	CLO1 , CLO2 , CLO3

Reading List	Recommended Text
	<ul style="list-style-type: none"> • Hollis, M, 2000, <i>Surveying Building</i>, 4th edn Ed., Surveyors Publishers London. • Barry A. Richardson 2001, <i>Defects and Deteriorations in Buildings</i>, 2nd Edn Ed., Spoon Press • David S. Watt 2007, <i>Building Pathology: Principle and Practice</i>, 2nd Edn. Ed., Blackwell • Brian Wood 2007, <i>Building Maintenance</i>, John Wiley • Addleson 1996, <i>Building Failure</i>, Butterworth Heinemann London • Legal Research Board 1996, <i>Street, Drainage and Building Act 1974 (Act 133)</i>, International Law Book Services Malaysia • Legal Research Board 1995, <i>The Uniform Building By Laws (P.W. 5178/85)</i>, International Law Book Services Malaysia • Legal Research Board 1976, <i>Local Government Act 1976</i>, Government Printing Department Malaysia
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources