



**UNIVERSITI TEKNOLOGI MARA**

**BSS602: CONSTRUCTION TECHNOLOGY III**

<b>Course Name (English)</b>	CONSTRUCTION TECHNOLOGY III <b>APPROVED</b>
<b>Course Code</b>	BSS602
<b>MQF Credit</b>	3
<b>Course Description</b>	This subject is aimed to cover in detail the construction and engineering works of special buildings with regards to the methods and materials selection and of industrialisation
<b>Transferable Skills</b>	Specialised and industrialise construction process Specialised construction builability Specialised in Building types Civil Engineering works
<b>Teaching Methodologies</b>	Lectures, Field Trip, Case Study, Problem Based Learning (PBL), Discussion, Self-directed Learning, Computer Aided Learning
<b>CLO</b>	CLO1 1. evaluate historical development and rationale for choice of materials and method of construction of specialize building forms CLO2 2. analyze multi-storey building construction process and the engineering works involved and the technological rationale CLO3 3. identify and interpret the demolition works, earthworks, road, railway, bridge, airport and tunnel construction, retaining wall and basement construction.
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Introduction</b> 1.1) INTRODUCTION TO SPECIALISED AND INDUSTRIALISED CONSTRUCTION 1.2) PROCESS	
<b>2. Industrialization Of The Construction Process</b> 2.1) SPECIALISED CONSTRUCTION - BUILDABILITY	
<b>3. Industrialization of The Construction Process</b> 3.1) What are modern methods of construction?	
<b>4. Specialized Building Types</b> 4.1) Large Span, Dom, Multistorey, Skyscraper. Tower	
<b>5. Specialized Building Types</b> 5.1) Revision on the analysis of building	
<b>6. Civil Engineering works</b> 6.1) Basement Construction	
<b>7. Civil Engineering works</b> 7.1) Roadworks & Railway Construction	
<b>8. Civil Engineering Works</b> 8.1) Tunnel Construction	
<b>9. Civil Engineering Works</b> 9.1) Earthworks	
<b>10. Civil Engineering Works</b> 10.1) Retaining Structure, Landslide & Land Reclamation	
<b>11. Civil Engineering Works</b> 11.1) Demoilition	



Assessment Breakdown	%
Continuous Assessment	30.00%
Final Assessment	70.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	n/a	10%	CLO1
	Assignment	n/a	20%	CLO2 , CLO3

Reading List	Recommended Text	<ul style="list-style-type: none"> <li>M. Y. L. Chew 2009, <i>Construction Technology for Tall Buildings</i>, World Scientific [ISBN: 9812818618]</li> </ul>
	Reference Book Resources	<ul style="list-style-type: none"> <li>Leonard M. Joseph 2002, <i>Skyscrapers</i>, The Rosen Publishing Group [ISBN: 0823961095]</li> <li>Philip Wolny 2008, <i>High Risk Construction Work</i>, The Rosen Publishing Group [ISBN: 1404217894]</li> <li>D. Kirk Hamilton, David H. Watkins 2009, <i>Evidence-Based Design for Multiple Building Types</i>, John Wiley &amp; Sons [ISBN: 0470129344]</li> <li>Francis D. K. Ching 2014, <i>Building Construction Illustrated</i>, John Wiley &amp; Sons [ISBN: 111874005X]</li> </ul>
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	