

**UNIVERSITI TEKNOLOGI MARA****LAS625: LANDSCAPE STRUCTURE AND CONSTRUCTION**

Course Name (English)	LANDSCAPE STRUCTURE AND CONSTRUCTION APPROVED				
Course Code	LAS625				
MQF Credit	4				
Course Description	This course is lecture, on-site learning, and studio based. It is designed to develop skill and confidence to prepare document necessary for project implementation - from drawings to contract materials - independently. This syllabus will expose and introduce students to the concept of structure that applies when designing the retaining wall, green wall, green roof and timber structures. The focus is on safety calculation for small structure and composite design. An academic visits to selected construction projects and laboratory demonstration will enhance students experience on landscape construction fields as well as it increases their confidence in taking lead to prepare documents necessary for landscape construction projects and implementation.				
Transferable Skills	Demonstrate professional skills, knowledge and competencies.				
Teaching Methodologies	Lectures, Studio, Demonstrations, Field Trip, Tutorial, Presentation, Supervision				
CLO	<p>CLO1 Identify the basic principles of structures that applied to small structures in landscape design</p> <p>CLO2 Respond to the structural design problems with landscape and engineering construction solutions.</p> <p>CLO3 Form professionalism and confidence in taking lead to prepare documents necessary for project implementation.</p> <p>CLO4 Integrate the construction details for landscape works that meet the standard and safety requirements and collaborate with structural engineers for commissioning.</p>				
Pre-Requisite Courses	No course recommendations				
Reading List	<table><tr><td>Recommended Text</td><td><ul style="list-style-type: none">Nicholas T. Dines, Kyle D. Brown 1998, <i>Time-Saver Standards for Landscape Architecture</i>, Second Ed., McGraw-Hill Professional [ISBN: 0070170274]Jack C. McCormac 2006, <i>Structural Analysis: Using Classical and Matrix Method</i>, Fourth Ed., Wiley [ISBN: 0470036087]Donald Breyer, Kenneth Fridley, Kelly Cobeen, Jr. Pollock, David 2014, <i>Design of Wood Structures-ASD/LRFD</i>, Seventh Ed., McGraw-Hill Education [ISBN: 0071745602]</td></tr><tr><td>Reference Book Resources</td><td><ul style="list-style-type: none">Carles Broto 2016, <i>Green Roofs</i>, Links International [ISBN: 8490540527]Daniel L. Schodek, Martin Bechthold 2013, <i>Structures</i>, Seventh Edition Ed., Prentice Hall [ISBN: 0132559137]Department of Standards Malaysia 2001, <i>MS544: Part 2: 2001: Code of Practice for Structural Use of Timber: Part 2: permissible Stress of Solid Timber</i>, First Ed., SIRIMGina Tsarouhas 2014, <i>Green Walls Green Roofs</i>, Images Publishing [ISBN: 9781864705522]</td></tr></table>	Recommended Text	<ul style="list-style-type: none">Nicholas T. Dines, Kyle D. Brown 1998, <i>Time-Saver Standards for Landscape Architecture</i>, Second Ed., McGraw-Hill Professional [ISBN: 0070170274]Jack C. McCormac 2006, <i>Structural Analysis: Using Classical and Matrix Method</i>, Fourth Ed., Wiley [ISBN: 0470036087]Donald Breyer, Kenneth Fridley, Kelly Cobeen, Jr. Pollock, David 2014, <i>Design of Wood Structures-ASD/LRFD</i>, Seventh Ed., McGraw-Hill Education [ISBN: 0071745602]	Reference Book Resources	<ul style="list-style-type: none">Carles Broto 2016, <i>Green Roofs</i>, Links International [ISBN: 8490540527]Daniel L. Schodek, Martin Bechthold 2013, <i>Structures</i>, Seventh Edition Ed., Prentice Hall [ISBN: 0132559137]Department of Standards Malaysia 2001, <i>MS544: Part 2: 2001: Code of Practice for Structural Use of Timber: Part 2: permissible Stress of Solid Timber</i>, First Ed., SIRIMGina Tsarouhas 2014, <i>Green Walls Green Roofs</i>, Images Publishing [ISBN: 9781864705522]
Recommended Text	<ul style="list-style-type: none">Nicholas T. Dines, Kyle D. Brown 1998, <i>Time-Saver Standards for Landscape Architecture</i>, Second Ed., McGraw-Hill Professional [ISBN: 0070170274]Jack C. McCormac 2006, <i>Structural Analysis: Using Classical and Matrix Method</i>, Fourth Ed., Wiley [ISBN: 0470036087]Donald Breyer, Kenneth Fridley, Kelly Cobeen, Jr. Pollock, David 2014, <i>Design of Wood Structures-ASD/LRFD</i>, Seventh Ed., McGraw-Hill Education [ISBN: 0071745602]				
Reference Book Resources	<ul style="list-style-type: none">Carles Broto 2016, <i>Green Roofs</i>, Links International [ISBN: 8490540527]Daniel L. Schodek, Martin Bechthold 2013, <i>Structures</i>, Seventh Edition Ed., Prentice Hall [ISBN: 0132559137]Department of Standards Malaysia 2001, <i>MS544: Part 2: 2001: Code of Practice for Structural Use of Timber: Part 2: permissible Stress of Solid Timber</i>, First Ed., SIRIMGina Tsarouhas 2014, <i>Green Walls Green Roofs</i>, Images Publishing [ISBN: 9781864705522]				
Article/Paper List	This Course does not have any article/paper resources				
Other References	This Course does not have any other resources				