

UNIVERSITI TEKNOLOGI MARA

BDY633: SILVICULTURE

Course Name (English)	SILVICULTURE APPROVED				
Course Code	BDY633				
MQF Credit	3				
Course Description	This course introduces silviculture terminology, concepts and their application. Malaysian lowland forest will be highlighted. Silvicultural prescriptions are covered in establishing forest stands, manipulating species composition, enhancing stand growth and health to meet a variety of environmental, societal and economic objectives				
Transferable Skills	On Completion of the course the student should be able to: 1. apply the principles of silviculture terminology, concept and application. 2. Manage and develop prescriptions to mange the soils and vegetation of forest. 3. apply the concept of biodiversity and recycling in Agroforestry systems.				
Teaching Methodologies	Lectures, Blended Learning, Field Trip, Practical Classes, Presentation, Supervision				
CLO	 CLO1 1. Describe the silvicultural characteristics of at least 30 tree species common to Malaysia CLO2 2. Assess resources and develop prescriptions to manage the soils and vegetation of a forest CLO3 3. Apply the knowledge of biodiversity and recycling concept in developing agroforestry systems 				
Pre-Requisite Courses	No course recommendations				
Topics					
1. Definition and principles					
2. Silviculture system 2.1) N/A					
3. Natural regeneration 3.1) N/A					
4.1) N/A					
5. Artificial regeneration 5.1) N/A					
6. Nursery management 6.1) N/A					
7. Site preparation 7.1) N/A					
8. Site species relationship 8.1) N/A					
9. Light Interception and Stand Nutrition 9.1) N/A					
10. Soil and Water Conservation 10.1) N/A					
11. Pests and Diseases 11.1) N/A					

Faculty Name : FACULTY OF APPLIED SCIENCES © Copyright Universiti Teknologi MARA **12. Thinning and Yield Estimation** 12.1) N/A **13. Mixed Stands** 13.1) N/A **14. Agroforestry** 14.1) N/A

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of						
Continuous Assessment	Assessment Typ	e	Assessment Description	% of Total Mark	CLO	
	Practical		n/a	10%	CLO3	
	Presentation		n/a	10%	CLO2	
	Test		n/a	30%	CLO1	
Pooding List Deference						
	Book Resources	Chuan, T.T. and Tangau, W.M 1991, Cultivated and potential forest plantation tree species with special reference to Sabal Institute for Development Studies (Sabah)				
	Tropics, 3rd Ed., Oxford University Press, Uk				ne	
	 	Kelty, M.J., Larson, B. C. and Oliver, C.D. 1992, The eco and Silviculture of mixed-species forests., Kluwer Acade Publishers				
	.	Schmidt, L 2007, Tropical Forest seed, Spring		ed, Springer Publis	[,] Publishing	
	• 	Upho Herre and 1 syste	off, N., Ball, A.S., Palm, C., Fernandes, E., Pretty, J., ren, H., Sanchez, P., Husson, O., Sanginga, N., Laing, M. Thies, J 2006, <i>Biological Approaches to sustainable soil</i> <i>tems</i> , CRC Press			
Article/Paper List	This Course does not have any article/paper resources					
Other References	This Course does not have any other resources					