AGX6490 Soil and water Conservation

	AGA0470 Soli aliu water Coliservation		
Level	6		
Course Code	AGX6490		
Course Title	Soil and water Conservation		
Credit value	4		
Core/Optional	Core		
Course Aim/s	To provide knowledge on principles of soil and water conservation and its applications		
	in sustainable agricultural production.		
Course Learning	At the completion of this course student will be able to		
Outcomes (CLO):	CO1: Describe the types of erosion in Sri Lanka [PLO1][PLO3][PLO4] [PLO5] [PLO12]		
, ,	CO2: Explain the mechanics of erosion, erosivity and erodibility[PLO1] [PLO5][PLO6]		
	CO3: Explain the importance of soil and water conservation and		
	management[PLO1][PLO5] [PLO7][PLO11][PLO12]		
	CO4: Describe the importance of rainwater harvesting[PLO1][PLO5] [PLO11][PLO12]		
	CO5: Evaluate the soil and water conservation policies and management in Sri		
	Lanka[PLO1][PLO5][PLO8][PLO9] [PLO11][PLO12]		
Content			
(Main topics, sub	Outline Syllabus: Unit 1: Soil Erosion		
topics)	Session 1: Man and erosion		
topics	Session 2: Type of erosion		
	Session 3 : Wind erosion		
	Session 4 : Mechanics erosion		
	Session 5 : Erosivity		
	Session 6 : Erodibility		
	Session 7 : Prediction of Soil		
	Session 8 : Soil erosion problem in Sri Lanka 1		
	Session 9 : Soil erosion problem in Sri Lanka 11		
	Session 10:Sedimentation problem in Sri Lanka		
	Unit 2: Soil and water conservation and management		
	Session 11: Estimation of Peak Run off		
	Session 12: Types of soil erosion Channel erosion and design of channel		
	Session 13: Vegetated waterways		
	Session 14: Mechanical conservation		
	Session 15: Biological Soil conservation1		
	Session 16: Biological Soil conservation 11		
	Session 17: Water conservation		
	Session 18 : Control of gully Erosion		
	Session 19: Rain water Harvesting 1		
	Session 20: Rain water Harvesting 11		
	Unit 3: Challenges in implementing soil and water conservation methods?		
	Session 21 : Soil erosion surveying		
	Session 22: Strategies for Soil Conservation		
	Session 23: Socio- economic Consideration		
	Session 24: Soil conservation and water policies		
	Session 25 :Causes for landslides and floods		
	Session 26: Economics of soil conservation		
	Session 27: Implementation of the conservation Agriculture		
	Laboratory work : yes		

1.	Measurement of soil erosion using universal soil loss equation
2.	Determination of amount of sediment trap in water sample
3.	Quantitative analysis of phosphate in soil and water sample