

AGI4561 Postharvest Biology and Technology

<b>Level</b>	4
<b>Course Code</b>	AGI4561
<b>Course Title</b>	Postharvest Biology and Technology
<b>Credit value</b>	5
<b>Core/Optional</b>	Core
<b>Course Aim/s</b>	Develop knowledge on post harvest biology and technology and skills required to minimize postharvest losses in order to ensure food security.
<b>Course Learning Outcomes (CLO):</b>	At the end of the course the students should be able to; CLO1: Describe postharvest losses and its impact on food security[ PLO1, PLO2, PLO6, PLO11] CLO2: Identify the causes of postharvest losses[PLO1, PLO3, PLO5, PLO8, PLO11] CLO3: Develop procedures and measures to minimize postharvest losses [PLO3, PLO5, PLO9, PLO11]
<b>Content (Main topics, sub topics)</b>	<b>Outline Syllabus:</b>  Unit 1 Postharvest Losses Session 1 An Introduction to Postharvest Losses Session 2 Impact of Postharvest Losses Session 3 Nature of Agricultural Produce Session 4 Postharvest Physiology/Respiration Session 5 Postharvest Physiology/Transpiration Session 6 Postharvest Physiology/Fruit Ripening Session 7 Postharvest Physiology/Fruit Maturation Session 8 Maturity Indices Session 9 Post-harvest Technology Unit 2 Causes of Post-harvest Losses Session 10 Preharvest Management Session 11 Postharvest Diseases Session 12 Postharvest Disorders Session 13 Pests and Postharvest Losses Session 14 Physiological Deterioration/Respiration Session 15 Physiological Deterioration/Water loss Session 16 Ripening process Session 17 Physical Injuries Session 18 Stages of Postharvest Losses Unit 3 Minimization of Postharvest Losses/Postharvest Management Session 19 Harvesting Session 20 Primary Processing 1 Session 21 Primary Processing 11 Session 22 Packaging Session 23 Transportation Session 24 Storage Session 25 Marketing Session 26 Food diversification Session 27 Postharvest handling of fruits and vegetables

	<p>Session 28 Postharvest handling of Cereals Session 29 Postharvest handling of Grains Session 30 Postharvest handling of Ornamental plants Session 31 Postharvest Machinery and Equipment</p>
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***Laboratory Work: Yes***