



COURSE SPECIFICATION 3rd SEMESTER

Course Name : Postharvest Technology
Code : KU 342
Credit : (3-1)

Course Description:

Post-harvest technology is a "Science and Technique" which is applied to agricultural products after harvest for protection, conservation, processing, packaging, distribution, marketing, and utilization to meet the food and nutritional needs of the community. Post-harvest Technology needs to be developed in line with community needs to stimulate agricultural production, prevent post-harvest losses, improve nutrition and add value to products. The Post-harvest Technology course is designed with the aim that students can apply post-harvest handling technology for agricultural products, both fruits, vegetables and cereals to prepare products according to market needs.

References:

- Teknologi Pengemasan Atmosfir Termodifikasi MAP (Modified Atmosphere Packaging). Jurnal Penelitian Pascapanen Pertanian. Badan Litbang Pertanian.
- Nugraha, S. 2012. Inovasi Teknologi Pascapanen untuk Mengurangi Susut Hasil dan Mempertahankan Mutu Gabah/Beras di Tingkat Petani. Buletin Teknologi Pascapanen Pertanian 8 (1). Balai besar Penelitian dan Pengembangan Pascapanen Pertanian.

Topics:

1. The importance of post-harvest handling
2. The technology used in post harvest handling
3. Manual harvesting
4. Effect of temperature on damage
5. Chilling injury
6. Principles of MAP
7. Gas mixing method
8. Combination with active packaging
9. Land transportation, sea transportation, air transportation
10. Sub-tropic fruit characteristics, Post-harvest handling procedures for subtropical fruit, 3. Post-harvest handling procedures for avocado/mango
11. Characteristics of cereal plant and nuts, Post-harvest technology for rice, Post-harvest handling technology for nuts.
12. Post-harvest technology for apples, Pear fruit post-harvest technology
13. Harvesting, field packing, packinghouse operations, cooling, recommend storage conditions

14. Quality control
15. HACCP
16. Package characteristics, product characteristics, cost analysis,
packaging marketing aspects, laboratory testing analysis