FNP 460 ANALYTICAL TECHNIQUES IN FOOD SCIENCE

Course outcome:

At the end of this course the students will be skilled on-

- CO 1. Chromatographic and immunological techniques used to identify different compounds.
- CO 2. Estimating enzyme activity and various factors affecting it
- CO 3. Handling spectrophotometer and its application
- CO 4. Estimating and isolating organic acids and nucleic acids respectively.

1.	Factors affecting enzyme activity
2.	Chromatographic techniques - paper, TLC, Column
3.	Estimation of organic acids
4.	Verification of Beer Lambert's Law
5	Isolation of DNA /RNA

6. Immunological techniques

FNP 461 FOOD PACKAGING

Course outcome:

At the end of this course the students will be able to-

- CO 1. Understand water vapour transmission rate for different materials.
- CO 2. Identify toxins, pesticides and adulteration in food.
- CO 3. Handel surface sterilization and its application in food handling
- CO 4. Assess food packaging effectiveness using various methods.

1. Assessment of air using Surface Impingement method.	
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- 2. Detection of efficacy of surface sterilization using swab and Rinse method.
- 3. Determination of water vapour transmission rate for different materials.
- 4. Estimation of toxins and pesticides in food.
- 5. Detection of adulteration in foods.

FNP 462 FOOD SAFETY AND QUALITY CONTROL

Course outcome:

At the end of this course the students will be able to-

- CO 1. Differentiate normal and abnormal biochemical parameters by determination of moisture, ash and acidity of food sample.
- CO 2. Determine water vapor transmission rate and air using Surface Impingement for different materials.
- CO 3. Detect adulteration in foods.
- CO 4. Analyze the safety parameters of food.

1.		Determination of moisture in a given food sample
2.		Determination of ash in a given food sample.
3.		Estimation of acidity of given food sample/beverage
4.		Determination of water vapour transmission rate for different
	materials.	
5.		Detection of adulteration in foods.
6.		Assessment of air using Surface Impingement method.