FNP 510: PRINCIPLES OF FOOD PROCESSING

Course outcome:

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

- CO 1. Several techniques in food processing and physical, chemical and nutritional changes during freezing.
- CO 2. Know about processes such as freezing and thawing and also the changes occurring in these processes.
- CO 3. Comprehend effects of physical and chemical changes during processing and also the nutritional loss occurred.
- CO 4. Identify the loss during processing and also the techniques to minimize the loss
- 1. Determination of physical and chemical changes during freezing
- 2. Nutritional changes of food during food processing
- 3. Determination of changes occurring at the time of thawing
- 4. Estimation of freezing point of different solids/ liquid and semi solid foods
- 5. Physical changes during the evaporation and drying

FNP 511 POST HARVEST TECHNOLOGY

Course outcome:

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

- Describe the grading and post harvest processing of seasonal fruits and vegetables.
- Write about storage pests and methods to overcome the wastage.
- Identify the importance of different packaging materials.
- List out different types of microorganisms responsible for food spoilage and steps to overcome it.
- 1. Grading of seasonal fruits and vegetables
- 2. Post harvest processing of fruit/vegetable
- 3. Study on storage pests/spoilage of selected food sample
- 4. Study on Total Soluble Solids of different fruits
- 5. Study of different post harvest spoilage microbes of fruits and vegetables
- 6. Waxing of fruits
- 7. Study of different packaging materials

FNP 512 FUNCTIONAL FOODS

Course outcome:

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

- Describe functional food and its role in treating diseases.
- Estimate the secondary metabolites produced by the plant sources using laboratory techniques.
- Identify the process of development of probiotic and prebiotic food product.
- List out the naturally occurring phytochemicals and also their quantification in food.
- 1. Anti-oxidant content in kokum
- 2. Estimation of polyphenols in different tea infusions
- 3. Development of a probiotic yoghurt

- 4.
- Development of a prebiotic food product
 Survey of intake of functional foods by patients suffering from noncommunicable disorders 5.