

Course code	Course Name	L-T-P - Credits	Year of Introduction
FT233	Food Chemistry Lab	0-0-3 - 1	2016
Prerequisite : FT203 Food chemistry			
Course Objectives To gain knowledge in detection and estimation of chemical constituents in food.			
List of Exercises/Experiments : <ol style="list-style-type: none"> 1. Analysis of water for potable and food purposes 2. Moisture content in foods in relation to their stability 3. Non-enzymatic browning reactions and its determinations 4. Qualitative tests for carbohydrates & proteins - distinguishing reducing from non-reducing sugars and keto from aldo sugars 5. Determination of rate/ extent of hydrolysis of sucrose/starch 6. Determination of free fatty acid content in fats and oils 7. Detection and estimation of oxidative rancidity in fats/oils 8. Determination of heat stability of vitamin c 9. Study of some reactions of proteins 10. Study of some processing changes in proteins 11. Study of some functional properties of proteins 12. Detection / Estimation of some additives in foods 13. Detection/Estimation of adulterants in some foods 14. Estimation of antioxidant(s) / polyphenol(s) in food sample 15. Analysis of lysine content in animal /vegetable sources 16. Preparation and measurement of pH of standard buffers 17. Gelling properties of starch 18. Acid hydrolysis and action of salivary amylase on starch 			
Expected outcome . Students will be able to know the chemical constituents in food by experimental methods.			
Text Book: <ol style="list-style-type: none"> 1. Morris B. Jacobs , <i>The chemical analysis of foods and food products</i>, III Edition, CBS Publishers and distributors New Delhi. 2. <i>ISI hand book of food analysis</i> 3. Ranganna S , <i>Hand book of analysis and quality control for fruit and vegetable products</i>, II Ed., Tata McGraw Hill Publishing Co. New Delhi. 4. <i>Official Method of analysis of AOAC</i> 			