M.A.H.SC. – 101 Food – Science & Experimental Cookery (core compulsory)

Objectives :-

- To acquaint the students with basic unit operations in cookery.
- To acquire knowledge concerning introduction and importance of food science.
- Develop ability in preparing various food product.
- To aware the students about food processing.
- To provide knowledge about various activities like leavening agent, flavoring agent, coloring agent, etc.

<u>Unit – 1</u>

- Introduction & Definition of food science.
- Palatability of food and measurement of its acceptance by methods of sensory evaluation.
- Relation of cookery to colloid chemistry.
- Standardization of recipy.

<u>Unit – 2</u>

- Importance of food additives..
- Importance of leavening agents.
- Various pigments in vegetables and various types of vegetables.
- Egg Cookery its structure, composition and nutritive quality.
- Spices and beverages classification of beverages importance of spices and beverages in relation to nutrition and health

<u>Unit -3</u>

• Fruits & Vegetables its importance fresh and dried fruits.

Cereals – its composition properties and its use in cookery use of flour and flour mixtures in cookery importance of glutin in cookery use of better and dough.

• Pulses and nuts structure types effect of various cooking methods of & nuts.

<u>Unit -4</u>

- Milk and milk products various types of milk, Pasteurisation process study of various milk products.
- Fats & Oils properties of fat rancidity of fat.
- Sugar cookery classification and properties of sugar.

Practical :-

- 1. Estimation of glutin in content from wheat flour.
- 2. Use of various leavening agent in cookery.
- 3. Sugar Cookery crystallization of sugar, preparation of various types of syrup, preparation of crystalline and non crystalline candy, preparation of some special sweets using various types of sugar syrup.
- 4. Egg cookery soft and hard boiled egg, fried egg, poached egg, omlette, cake, use of egg as a binding thickening and emulsifying agent.
- 5. Effect of cooking on various pigments of vegetables in various medium.
- 6. Milk Cookery Effect of cooking on milk, preparation of paneer by various methods from milk.
- 7. Use of emulsion in cookery.

Reference Books :-

- 1. Food science and experimental cookery By M. Swaminathan.
- 2. Food science by B. Shrilaxmi New Age International Publishers New Delhi.
- 3. Foods selection and preparation sweedam and Makeller.,
- 4. Food Science by Dr. Uma D. Patel.
- 5. Essential of Foods and Nutrition By M. Swaminathan.