Course related to Environment

Sem Course Code	Elective - II	Total Marks: 100	Hours Per Week	Credits
IV 17UATET409	Food Preservation	CIA: 25 ESE: 75	4	4

OBJECTIVE(S)

- 1. To understand the principles of food preservation
- 2. To acquire skills in methods of food preservation

Course Outcomes:

At the end of the course, students will be able to

CO1 Will have a basic knowledge about concept of food preservations.

CO2 Will have a good knowledge in preservation techniques by using food chemicals.

CO3 Will possess a thorough knowledge in processing of foods

CO4 Can enrich their skills and knowledge in preservation of food by Cold & Hot temperatures.

CO5 Will have a knowledge in radiation of foods.

UNITI

Food preservation - Definition, general principles and methods of food preservation. Classification of foods for processing. Preservation by addition of sugar, salt- General principles. Status and scope of food processing industry in India.

UNIT II

Preservation by use of high temperature - Pasteurization, sterilization and their types. Canning - Steps, types of cans, advantages, disadvantages.

Bottling - Steps, advantages, disadvantages.

Food dehydration - Concept of dehydration and sun drying.

UNIT III

Preservation by use of low temperature, Types - Common types of cold storage, refrigeration during transport, defects in cold storage.

Freezing - Principles and methods of freezing, freeze drying - advantages and disadvantages.

UNIT IV

Preservation with chemicals preservatives in processed food sorbic acid and acetic acid), and

microbial inhibition, mechanism and action of an organic preservatives (harites ANDISCIENCE COLLEGE (AUTONOMOUS) and bitors, antioxidants had Janasuram, erope - 630 107.

UNITY

Radiation of foods- Sources of radiation, units of radiation, mode of action of irradiation, radiation effect on protein enzyme system, microwave heat. Preservation of semi moist foods - Principles and intermediate moist foods.

TEXTBOOK

Janet D. Ward and Larry T. Ward, Principles of Food Science. Goodheart-Willcox Company, Tinley Park, IL, 2007.

REFERENCES

- 1) B. Sivasankar, Food Processing and Preservation, PHI Learning Private Limited, New Delhi, 2002.
- G.Subbulakshmi and Shobha A. Udipi. Food Processing and Preservation, New Age International Publishers, New Delhi, 2001.
- 3) B. Srilakshmi, Food Science, 3rd Edition, New Age International Publishers, New Delhi, 2003.
- 4) W.C. Frazier, D.C. Westhoff, Food Microbiology, Mc Graw Hill, New York, 1995.

QUESTION PAPER PATTERN				
Section - A	Section - B	Section - C		
10 x 1 = 10 Marks	5 x 7 = 35 Marks	3 x 10 = 30 Marks		
(Multiple Choice, Four options)	(Either or choice)	(Answer any three Questions)		
Two questions from each unit	Two questions from each unit	One Question from each unit)		

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