prefessed 6th

FOOD SCIENCE & TECHNOLOGY: PROCESSING OF FOODS OF ANIMAL ORIGIN

E PECIFIC PERSON _ T.E.)

CREDITS: THEORY: 4, PRACTICAL: 2

UNIT I

- Sources and composition of milk, nutritive value.
- Chemistry of milk milk, proteins, lactose, vitamins, minerals & salts.
- Processing of market milk standardization, toning of milk, homogenization, pasteurisation, sterilization.

UNIT II

- Storage, transportation and distribution of milk.
- Milk products processing of cream, whole and skimmed milk, fermented milk, butter and its manufacture.
- Cheese and its types.
- Production of ice creams.

UNIT III

- Introduction of Indian meat industry.
- Structure of muscle; slaughtering of meat animals. Post-mortem changes in meat.
- Tenderization and aging of meat.
- Different cuts of lamb and their uses.

UNIT IV

- Preservation of meat by freezing, curing, pickling an smoking
- Traditional meat products in J&K.
- Structure, composition and nutritive value of eggs.
- Preservation of fish by freezing, canning, smoking and dehydration.
- Packaging requirements of meat and meat products.

PRACTICALS

- / 1. Market survey of meat and milk products.
 - 2. Preparation of meat pickle.
 - 3. Slaughtering of poultry and determination of meat to bone ratio.



- 4. Dressing of fish and calculation of dressing percentage.
- 5. Quality evaluation of eggs.
- 6. Evaluation of milk-total solids, fat.
- 7. Determination of acidity and specific gravity of milk.
- 8. Preparation of common milk products like yoghurt, evaporated milk.
- 9. Visit to local milk processing plant and slaughterhouse.

References

- 1. Outlines of Dairy Technology by S. K. De.
- 2. Dairy Chemistry by H.H. Sommer.
- 3. Lawre. R.A. & Ledward, D.A. (2006). Lowres meat science 7th edition. Woodhead publishing company, Cambridge, England.
- 4. Principles of meat Science by Forest.
- 5. Processed Meats by Pearson.