ST.JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM

IVSEMESTER **HOMESCIENCE** TIME:2HRS/WEEK

HS 4253 (2) **NUTRITIONAL BIOCHEMISTRY** MAX.MARKS:50

w.e.f. 2020 –2021("20AH") **PRACTICALSYLLABUS**

OBJECTIVES: To enable the student to –

- Understand the chemistry of nutrients.
- Learn the principles and procedure of food and biochemical analysis.

OUTCOMES OF THE COURSE: On completion of the Course, the student shall

- Be able to evaluate presence of nutrients in various foods.
- Get acquainted with various food analysis techniques.
- Gain an understanding of the entrepreneurial avenues in food analysis
- Develop an interest in pursuing the course at the Master's level.

COURSE:

1. Preparation of acids, bases, buffers, measuring pH.
2. Qualitative analysis – Identification of carbohydrates
3. Qualitative analysis – Identification of proteins and amino acids
4. Qualitative analysis of Lipids.
5. Qualitative analysis of food enzymes – plant and animal.

REFERNENCES

- Rama Rao, A.V.SS. (2015) A Text book of Biochemistry, 6th edition, UBSPD publications.
- Singh S.P., (2011), Principles of Biochemistry, CBS Publishers.
- Satyanarayana, U. (2000). Biochemistry, 2nd edition, Uppala Author publishers.
- Dulsy Fatima, Dr. L.M. Narayanan (2005). Biochemistry, 1st edition, Saras publications

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