



MANGALORE UNIVERSITY

DEPARTMENT OF BIOSCIENCES

MSc Food Science & Nutrition

FNP 409 NUTRITIONAL BIOCHEMISTRY

Course outcome:

- Describe techniques and instruments used in biochemical analysis of different biological samples.
 - Use colorimetric techniques.
 - Write down the study the blood analysis parameters.
 - Analyze the urine samples using different qualitative and quantitative methods.
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- 1) Techniques used in biochemical analysis
 - 2) Determination of pH in acids, alkalis and buffers using pH meter and indicators
 - 3) Colorimeters – use of colorimeter in UV and visual range, flame photometer, flour meter (principle to be explained and demonstrated with one example foreach)
 - 4) Separation techniques- chromatography- paper and Column. Centrifugation, electrophoresis and dialysis (one example for each may bedemonstrated)
 - 5) Blood analysis- enumeration of RBC & WBC. Blood glucose, serum albumin, globulin, phosphorous, calcium, cholesterol andurea.
 - 6) Urine analysis- quantitative- sugar, albumin andmicroscopy