

# CHAITANYA DEGREE & PG COLLEGE FOR WOMEN

**PROGRAMME NAME: B.Sc(Micro-Biology, Bio-Chemistry, Chemistry)**

## PROGRAM OUTCOMES

**PO 1:** Create the passion to learn new things, remember, recollect and find the connections across the subjects.

**PO 2:** Ability to communicate fluently and explain the scientific concepts clearly.

**PO3:** Create independent thinking and problem solving skills by applying their domain knowledge.

**PO 4:** Develop language and aptitude skills to succeed in various national and international exams.

**PO 5:** Train them to learn, work in groups, acknowledge others and appreciate its power.

**PO 6:** Ability to handle various instruments and plan for carrying out different experiments.

**PO 7:** Generate quality academicians, scientists and entrepreneurs in the field of health sector.

**PO 8:** Develop skills to undertake independent projects related to societal needs.

**PO 9:** Generate promising job opportunities for the students in Diagnostic labs and Pharmaceutical companies.

**PO 10:** Develops a positive attitude to face the various life challenges.

**PO 11:** Students can get various teaching positions in different colleges, universities and topmost institutions of our Nation.

**PO 12:** Opens up many more avenues to pursue their higher education in abroad.

## PROGRAM SPECIFIC OUTCOMES

**PSO 1:** Provides a comprehensive knowledge about the interactions between the biomolecules, intermediary metabolic pathways, energy production and metabolic disorders.

**PSO2:** Introduce the importance of diet, its sources and deficiency diseases.

**PSO 3:** Gives ample knowledge about the Human physiology, clinical manifestation of diseases and diagnostic tools.

**PSO 4:** Explains thoroughly about the defense mechanisms against infectious diseases, structure and functions of various biomolecules involved in it and their application in pharmaceutical industries and healthcare sectors.

**PSO 5:** Provides hands on experience on collection of blood and different specimens, its processing according to the requirement, safety regulations, Complete Blood Count, biochemical estimation of various biomolecules (like glucose, cholesterol, haemoglobin etc.) and interpreting the results on the basis of reference values.

**PSO 6:** Introduces organization of clinical and immunological laboratories, instrumentation, automation and the importance of quality control parameters in clinical biochemistry.

**PSO 7:** Gives knowledge about various hormones and their role in maintaining the homeostasis of the cell.

**PSO 8:** Explains the mechanisms of central dogma of the cell and application of this basic understanding in our daily life.