



CRITERION I - CURRICULAR ASPECTS

1.3 Curriculum Enrichment

1.3.2 Certificate Courses/Value-added Courses

Value added Courses

**Department of Chemistry
2022-2023**

Brochure

- 1. Analytical chemistry and instrumentation techniques**
- 2. Water and Effluent Analysis**
- 3. Chemistry in Changing Lifestyle**
- 4. Soaps and Detergent Making**
- 5. Phytochemistry and Biological Activities of Medicinal Plant.**

About The College:

Kumbakonam, famously known as temple city is the second bigger town in Thanjavur district. Government college for women,(Autonomous), is a highly Reputed Arts & Science College exclusively for women, which was established in the year 1963.It is affiliated to Bharathidasan University, NAAC PEER TEAM awarded a B+ status. The college was subsequently reaccredited with B grade, Implementation of Autonomy has given greater freedom to bring about radical changes in the academic structure. The college offers 12 UG programmes and 11 PG programmes under CBCS and also offers Ph.D programmes. The college has been in the of students community for over half a century.

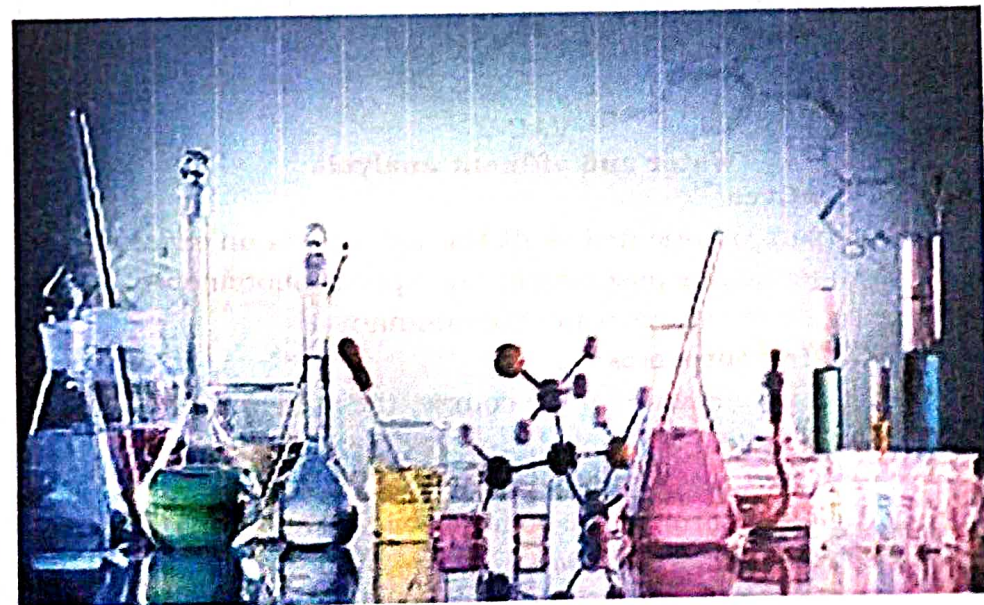
About the Department

The department of chemistry is one of the earliest departments in the college. on 28.07 1967 a separate building for the chemistry department was inaugurated by the honourable chief minister ARINGAR C.N. ANNADURAI . B.sc Chemistry was started in the year 1968. M.SC. chemistry in the year 2005 and Ph. D in the year 2012.

The department imparts quality education in the field of chemical sciences , The course aims at academic excellence, personality development leadership skills, systematic and disciplined work and inculcates a scientific temper in students. The department is vibrant and ambitious ; it is actively engaged in conducting academic events such as seminars , Chemistry association meeting , guest lectures, Intra departmental competitions etc .,

UG, PG and Research Laboratory comprises of well-equipped infrastructure which develops research aptitudes and scientific tempo in the minds of younger generation specifically in and around rural areas and it had laid a strong platform for its academic credibility with several university rank holders .

GOVERNMENT COLLEGE FOR WOMEN, (AUTONOMOUS),KUMBAKONAM. DEPARTMENT OF CHEMISTRY (Reaccredited with " B" Grade by NAAC) (DST - CURIE Sponsored Institution) VALUE ADDED COURSE



Courses offered

- Analytical chemistry & instrumentation techniques
- Water and effluent analysis
- Chemistry in changing life style
- Soaps and detergents making
- Phytochemistry and biological activities of medicinal plants

VAC -1

Analytical chemistry & instrumentation techniques

Course Objectives

- Students are trained to understand the principle of working, learn and practice the standard
- Protocol and analyze the data by conducting experiments.

Course outcomes:

After completing the course the students able to,

- Operate the Analytical instruments and UV-VIS spectrometer, colorimeter, pH meter.

VAC-2

Water and effluent analysis

Course Objectives:

- To impart job-oriented skills through hands-on experiment on water quality assessment and spectrophotometric detection of various water contaminant.

Course learning outcomes:

- After the completion of the course, the students should be able to
- 1. Analyze the ground and industrial waste water
- 2. Able to determine the common water contaminant using spectrophotometric technique.

VAC-3

Chemistry in changing life style

COURSE OBJECTIVES

- To apply the knowledge of VOC's in creating awareness among public and hazards of detergent pollution.
- To Evaluate Lubricants its utility in regular activity.

COURSE OUTCOMES

- Apply the knowledge of VOC's in creating awareness among public and hazards of detergent pollution.
- Evaluate Lubricants its utility in regular activity.

VAC-4

Soap and detergent making

COURSE OBJECTIVES

- To appreciate the role of chemistry in the service of humanity and enhancing life style of sophisticated fast world.
- To understand the importance and application of various Chemical compounds.

COURSE OUTCOMES

After completing the course the students able to,

- Explain preparation of Hard and Soft soap, liquid soap.
- Explain the preparation of solid and liquid soap.

VAC-5

Phytochemistry and biological activities of Medicinal plants

COURSE OBJECTIVES:

- To learn about Phyto-chemistry and biological activities of medicinal plants.

COURSE OUTCOMES

After completion of the course, student will

- Understand the concepts of Phyto-chemistry.
- Able to appreciate the medicinal values of plants.
- Know the various techniques involved in the Phyto-chemistry
- Familiarize the bio-active components present in the plants