

VSM COLLEGE(A)

RAMACHANDRAPURAM

NAAC Re-accredited with 'B' Grade at 2.69 CGPA

(Affiliated to ADIKAVI NANNAYYA UNIVERSITY, RAJAMAHENDRAVARAM)



RESEARCH IN CHEMISTRY DEPARTMENT

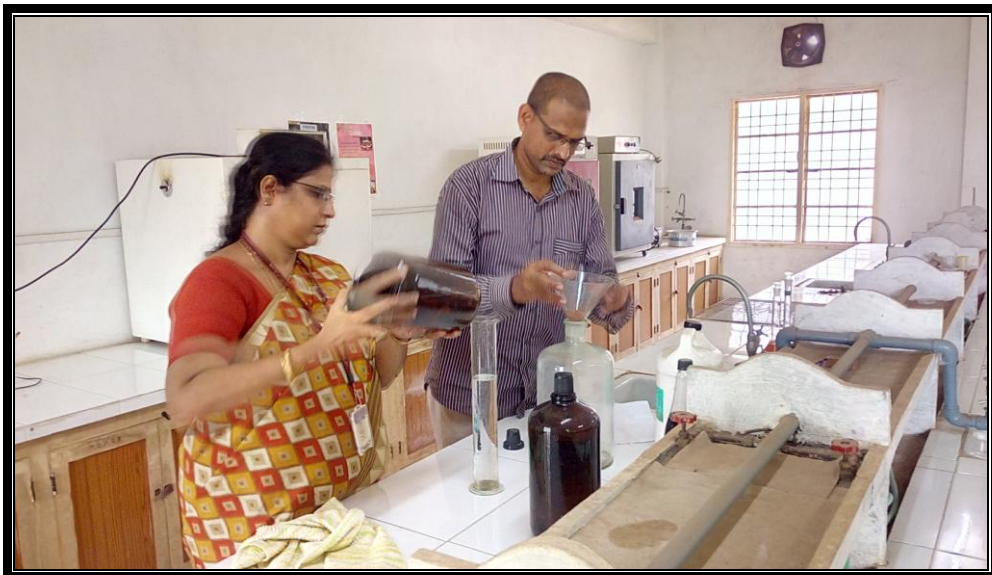
Research on Medicinal Plants:

Human beings have been suffering with different types of diseases from ages. Hence, to get free from those diseases, everyone will depend on medicines. Medicines will be prepared synthetically or from extracted from natural products.

In this connection, Chemistry department has shown interest in natural products and their importance as medicines. Hence, projects were applied in this area and got financial support from UGC.

After careful literature survey, barks and leaves of some specific medicinal plants are collected from the eastern ghats and nearby forests and dried. These dried parts are powdered and extracted with organic solvents like n-hexane, methyl alcohol, etc. The crude extracts are purified by using chromatographic techniques and send to identify the structures of the compounds and their biological importance.





Research on Water Analysis:

Water is needed for daily use by organisms, for irrigation, industrial electricity production and domestic use. Hence, water is an important resource in all economic activities ranging from agriculture to industry. The distribution of water resources is not uniform over the earth's surface. Today, fresh water has become precious commodity and its quality is threatened by numerous sources of pollution. The major sources of water pollution are domestic waste from rural and urban areas, and industrial wastes which are discharged into natural water bodies. The undesirable substances present in the water converts the water to be useless and harmful to the living organisms by degrading its quality. The water pollution disturbs the normal uses of water for irrigation, agriculture, industries, public water supply and aquatic life.

In this connection, Chemistry department started analysis of water. Water samples were collected from different parts of East Godavari District and tested for various quality parameters and quantities of metal ions.