

REPORT ON VALUE ADDED PROGRAM 2024

Ramaiah College of Arts, Science and Commerce under the department of Microbiology conducted value added programme from June -august 2024 under the title Fermentation Technology- Isolation, screening and Analysis of metabolites in Industrially important microorganisms .

Fermentation is a biological process that uses microorganisms to convert substrates into valuable products .The type of fermentation that occurs depends on the type of bacteria used.

It is one of the important Microbiological techniques and tool essential to many industries such as food industry, Biotechnology, Pharmaceuticals industry and many more.

Under this programme industrially important microorganism were isolated by crowded plate technique from natural sources and the organisms were screened for the production of enzymes, antimicrobial agent, organic acids and alkaline compound by using various screening procedures.

The isolated microorganism was subjected for inoculum development by using respective broth and the growth of the inoculum was monitored regularly .Later the developed inoculum was used for the production of specific crude metabolite by fermentation technology.

The produced crude metabolite was recovered using specific purification method and the product obtained was analysed in both the aspects of chemical and microbiological analysis as a part of quality control.

